REPORT ON
GROUNDWATER QUALITY
AT
BOLTON ROAD SANITARY LANDFILL FACILITY

PREPARED FOR

SOUTHERN STATES LANDFILL

PREPARED BY

TRIBBLE & RICHARDSON, INC.

PROJECT NO.

5566-013-01

JANUARY, 1988

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ATTACHMENTS

SCOPE AND CONCLUSIONS

At the request of Southern States Landfill Inc., per the direction of the Georgia Environmental Protection Division; Tribble & Richardson, Inc. was retained to sample and analyze the groundwater monitoring wells at the Bolton Road Landfill Facility. The purpose of which was to develop an assessment monitoring plan that will define the extent of any contamination and to identify specific chemical constituents in the landfill leachate if found in the wells.

Based upon the conclusions drawn from the analyses performed, Tribble & Richardson recommends the following action be taken by Southern States in implementing an assessment monitoring plan.

1. Institute a quarterly sampling and analysis plan to include specific analyses for pH, chlorides, and conductance.
2. Include in the quarterly analysis the "Microtox" procedure.
3. Institute a semiannually sampling and analysis plan to include drinking water standard metals and volatile compounds on the Clean Water Act Pollutant list.
4. Report sampling results to the Georgia Environmental Protection Division (GEPD) within 30 days after analyses have been completed.
5. At the end of a two (2) year period submit a report to

GEPD describing any groundwater changes found unless appreciable changes are noted earlier, in which case GEPD should be notified then.

SAMPLING PROCEDURES

Five groundwater monitoring wells at the Bolton Road site were sampled on December 29, 1987 and December 30, 1987, in accordance with May 1987 "Georgia Environmental Protection Division Manual for Groundwater Monitoring", Pages 21 through 27. The following comments apply:

1) A teflon/stainless steel bladder pump was used for purging and sampling.
2) The same equipment was used at all wells with a distilled water wash in between each.
3) A distilled water blank was not carried to the field.
4) Chloride, pH, and conductance analyses were performed according to the 16th edition of Standard Methods for the Examination of Water and Wastewater. In addition to the specific analyses, a "Microtox" procedure analysis was performed. This test is not an EPA approved method, however, it is used by EPA.
5) All field instruments were recalibrated in the field.

ANALYSIS AND RESULTS

The wells were analyzed by the "microtox" procedure described in Attachment 1. The "microtox" test results of the

wells are shown in Attachment 2. Each well had an EC_{50} of >100%. Any sample with an EC_{50} of >20% is considered nontoxic. Since the EC_{50} showed no toxicity at any well, the % light lost (%LL) was monitored to detect differences among wells themselves and against a non-toxic standard. Wells 1, 2 and 3 showed no statistical differences from the standard. There is no sign of toxicity. Wells 4 and 5 showed a statistically higher %LL when compared to the standard. This indicates a difference from Wells 1, 2 and 3 but does not indicate toxicity. Wells 4 and 5 also had noticeable odors upon purging and collection. Attachment 3 describes sampling conditions and purging procedures used. The values for pH, chloride and conductance were within the expected range. The values are shown in Attachment 4.

CONCLUSIONS AND RECOMMENDATIONS

The extreme volume of water in Wells 1 and 2 makes a three volume purge difficult. The maximum purge rate is 6 gpm; it would take between 1.5 to 3.0 hours to purge them. In addition, the excessive depth of water makes contaminant dilution likely. These wells were installed under the observation of the Georgia Geologic Survey. It should also be noted that these wells are cased with galvanized iron pipe.

Since Wells 4 and 5 appear different in groundwater quality from Wells 1, 2 and 3; it is recommended that once per quarter microtox, pH, chlorides, and conductance analyses to track any additional changes be conducted. A greater than 50%LL (5 minute)

and/or 80%LL (15 minute) in the microtox procedure for any well will trigger additional analysis at that well. The indicated analyses would be determined at that time.

It is also recommended that drinking water standard metals and volatile organic compounds be analyzed in the next quarterly sampling period (June, 1988), and results be reported to GEPD along with the quarterly test results.

SCOPE AND CONCLUSIONS

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Based upon the conclusions drawn from the analysis performed, Tribble & Richardson recommends the following action be taken by Southern States in implementing an assessment monitoring plan.

1) Institute a quarterly sampling and analysis plan to include specific analysis for pH, chlorides and conductance. Report the results of this sampling to Georgia DNR-EPD.

2) Include in the quarterly analysis the "Microtox" procedure.

3) At the end of a two (2) year period send a report to the Georgia Environmental Protection Division describing any groundwater changes found unless appreciable changes are noted earlier, in which case EPD should be notified then.

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ATTACHMENT 2

Southern States Landfill
Collected 12/29/87 and 12/30/87

Sample ID	5 minutes		15 minutes	
	%LL	$\%EC_{50}$	%LL	$\%EC_{50}$
Non-Toxic Standard	6	>500	7	>500
Well 1	7	>500	6	>500
Well 2	11	>500	17	>500
Well 3	10	>500	15	>500
Well 4	27	350	57	100
Well 5	34	280	61	90

Conditions:

100% sample dilution
Performed using microtox procedure

GROUNDWATER MONITORING

CLIENT Southern States Landfill DATE 12/29-30/87 TIME _____ BY Billy Long

Type asing	Well Ident.	Depth to Bottom(ft)	Depth to Water(ft)	Depth of Water(ft)	Well Diameter	Volume to Purge		COMMENTS
etal	1	180	76	104	6"	59	12-29-87	Was not purged due to excessive volume
e	2	268	48	220	6"	971	12-29-87	Was not purged due to excessive volume
VC	3	58	27	31	4"	61	12-29-87	Complete 3 volumes purged and sample immediately thereafter
								Smelled rotted e.g. sulfide
VC	4	44	28 1/2	15.5	4"	31	12-29-87	Complete 3 volumes purged and sample immediately thereafter
								Odor during purging
VC	5	44	28 1/2	15.5	4:	31	12-30-87	Complete 3 volumes purged and sample immediately thereafter

ATTACHMENT #4

icipal Solid Waste Control Program - EPD
0 Norman Berry Drive - 7th Floor
eville, Georgia 30354
/656-2836

WATER MONITORING REPORT

SOLID WASTE DISPOSAL SITES

e Name: Southern States Landfill-Bolton Road

e Sample: ☐ Background ☒ Operational ☐ Other

itoring Results

Sampling Date 12/29-30/87

Monitoring Station #	Analytical Results			Depth to Groundwater -Wells Only- (ft.)	Physical Condition of Monitoring Station (Describe)
	pH	Specific Conductance (µmhos)	Chlorides (mg/l)		
1	6.6	550	68	76	Metal Casing, sample collected 12-29-87
2	6.3	400	11	48	Metal Casing, sample collected 12-29-87
3	5.4	550	99	27	PVC Casing, sample collected 12-29-87
4	5.9	650	69	28 1/2	PVC Casing, sample collected 12-30-87
5	5.9	550	34	28 1/2	PVC Casing, sample collected 12-30-87

oratory TRIBBLE & RICHARDSON, INC. Chemist KATHY BRAGG Telephone # 912 / 474 - 6100

Solid Waste Management Program - EPD
3420 Norman Berry Drive - 7th Floor
Hapeville, Georgia 30354
404/656-2836

WATER MONITORING REPORT

SOLID WASTE DISPOSAL SITES

Site Name: Southern States Landfill-Bolton Road Site Fulton County

Type Sample: ☐ Background ☒ Operational ☐ Other _____

Monitoring Results

Sampling Date October 27, 1988

Monitoring Station #	Analytical Results: pH	Analytical Results: Specific Conductance (µmhos)	Analytical Results: Chlorides (mg/l)	Depth to Groundwater -Wells Only- (ft.)	Physical Condition of Monitoring Station (Describe)
Well #1	6.3	800	77.1	76'	Metal casing 6"
Well #2	5.8	560	14.6	59'	Metal casing 6"
Well #3	5.5	1,275	218.9	27'	PVC casing 4"
Well #4	5.9	920	88.06	30'	PVC casing 4"
Well #5	5.8	840	46.9	29'	PVC casing 4"
Surface Pond	7.0	120	10.4	NA	Caught from Chatahoochee river behind well #3

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Laboratory Tribble & Richardson, Inc. Chemist Kathy S. Bragg Telephone # 912 / 474 - 6100

(OVER)

ALEX. BROWN & SONS
INCORPORATED

Research

Environmental Services Group

Stephen L. Schweich
(301) 783-3243

May 29, 1990

SANIFILL, INC.
(ASE: FIL)

A Landfill Cooperative Thinks Big

Price 5/29/90	1990 Price Range	EPS (FY: Dec.) 1989A	1990E	1991E	Cal. Yr. P/E 1990E	1991E	Indicated Dividend	Yield
17	17 - 12	$0.20	$0.50	$0.75	34.0x	22.7x	$0.00	Nil

Shares Outstanding: 7.0 million
Market Value of Common: $119 million
Average Daily Volume: 75,000 shares
Estimated Float: 2.3 million shares

DJIA: 2870.49
S&P 500: 360.65
Est. 3-5 Year Growth Rate: 50%
HQ: Houston, TX

INVESTMENT CONCLUSION: BUY

Sanifill is an environmental services company engaged in acquiring, operating and developing nonhazardous solid waste disposal sites. The Company presently owns seven operating landfills in Houston (6) and Atlanta (1) with combined annualized revenues of $16-17 million and approximately a 60% gross margin. Sanifill recently executed letters of intent to acquire four additional disposal operations, two operating landfills, and two newly-permitted sites. This first round of acquisitions should add roughly $11 million, or 65%, to Sanifill's annual revenues at comparable profit margins, and expand the Company's geographic base of operations.

THE SANIFILL CONCEPT: A LANDFILL COOPERATIVE

We believe Sanifill will succeed because it addresses the needs of many independent landfill owners that are: (1) looking to realize value without "cashing out" and giving up control of their business operations entirely; (2) requiring millions of dollars of additional capital to upgrade, expand, or further develop a landfill site; and (3) having difficulty complying with more complex and demanding environmental regulations including the proposed Subtitle D requirements. Sanifill has the financial resources, operational knowhow and legal/environmental expertise that many independent landfill owners now need desparately.

THE SANIFILL STRATEGY: STAY OUT OF COLLECTION

Sanifill offers the independent landfill owner the opportunity to be part of an emerging company that is exclusively focused on the disposal segment of the solid waste industry. The independent landfill operator wants to maintain good relationships with his independent waste collection company customers. Selling out to a "major" with significant collection operations might jeopardize these relationships.

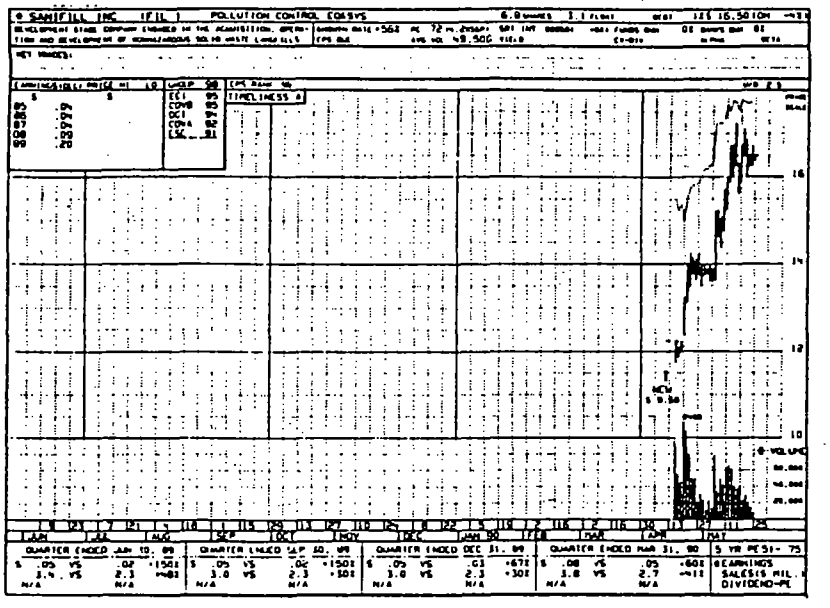


Chart Courtesy of William O'Neil & Co.
May 28, 1990

EARNINGS PER SHARE (FY: DEC.)

	1989A	Y/Y CHG	1990E	Y/Y CHG	1991E	Y/Y CHG
1Q	$0.05	*NA*	$0.08 A	*60%*	*NE*	*NM*
2Q	$0.06	*NA*	0.10	*67%*	*NE*	*NM*
3Q	$0.06	*NA*	*NE*	*NM*	*NE*	*NM*
4Q	$0.03	*NA*	*NE*	*NM*	*NE*	*NM*
FY	$0.20	*122%*	$0.50	*150%*	$0.75	*50%*

ANNUAL FINANCIAL DATA

($ millions)	1988A	1989A	1990E	1991E
Total Revenues	$9.2	$12.1	$25.0	$40.0
Net Income	$0.6	$1.2	$4.0	$6.4
Cash Flow	$1.8	$2.5	$6.0	$9.0
Pretax Margin	10.6%	18.7%	26.7%	26.7%
Return on Avg. Equity	*NM*	*NM*	30.0%	34.0%
Return on Avg. Assets	*NM*	*NM*	18.0%	20.0%

FINANCIAL POSITION AS OF 3/31/90 (pro forma)

($ millions)	
Total Assets	$21.4
Working Capital	$7.4
Long-Term Debt (LTD)	$2.3
LTD/Tot. Capitalization	15%
Cash Flow/LTD	265%
Current Ratio	2.5:1.0
Shareholders' Equity	$12.4

MEASURES OF VALUE

Price: $17.00

Book Value Per Share (3/31/90)	$1.77
Price-to-Book Value	9.6 x
P/E CY 1990E/3-5 Yr. Est. Growth Rate	68 %
Market Cap./FY 1990 Est. Revenue	4.8 x
P/E-to-S&P 500 P/E Calendar Yr 1990E	2.4 x
P/E-to-S&P 500 P/E Calendar Yr 1991E	1.7 x
4-Year P/E Ratio Range	*NA*

INSTITUTIONAL HOLDINGS (est.)

Common Shrs Held (mil.):	0.7
% Total Outstanding:	10.0%

Sanifill may also use its disposal focus as an important selling point in approaching municipal governments about landfill partnership agreements. While many municipalities want to privatize their solid waste activities, it may be politically advisable to keep landfill and collection operations separate by selecting different vendors to handle each activity. The "majors" may be tempted to choose the larger dollar volume collection contracts.

THE BACKBONE OF THE COMPANY: PEOPLE

Sanifill's most valuable asset today is a seasoned team of operating, financial, technical and legal people with extensive experience in the waste services industry. While Sanifill clearly has far more management than is necessary for a $25 million company, this accumulation of talent is precisely what gives Sanifill the ability to succeed and a big headstart on its potential competitors/imitators. The following chart illustrates the Company's depth of management talent:

Person	Title	Years Industry Experience	Key Background Facts
Al Warrington	Chairman	32	Arthur Andersen - Partner
Larry Martin	President	9	landfill entrepreneur
Mike Adams	COO	18	Waste Management, BFI
Carl Warden	Vice Chairman	30	Allwaste co-founder
Bubba Nelson	Director	28	Allwaste founder & Chairman
Mike Baker	SVP	18	Allwaste, BFI, attorney
Chuck Williams	VP-Engineering	12	McBride-Ratcliff, EVP
Paul Davis	VP-Government Affairs	25	Gulf Coast Waste Authority
Bill Rothrock	VP-Landfill Mktg.	4	BFI
Doug Sobey	Region VP	14	BFI
Greg Orr	Region VP	12	BFI
Jim DeVoe	Region VP	20	Chambers Development, SCA
John Sanders	VP-Controller	18	C.P.A., banking, finance
Dick Dudgeon	Region Marketing Dir.	10	BFI
Dave Turkal	Region Marketing Dir.	5	BFI

FINANCIAL PROFILE: RECURRING REVENUES AND HIGH MARGINS

At this stage, we think that a detailed analysis or forecast of Sanifill's financial results is a fairly meaningless exercise. Future acquisitions, many of which will be poolings-of-interests, will likely cause the Company to restate its financial statements several times this year. Nonetheless, investors should expect the Company to maintain two important financial characteristics: internal revenue growth of 15% or more (it was 25-30% in 1Q 1990), and gross margins of 50-60% (60.7% in 1Q 1990). The SG&A expense ratio, which was 40% in 1Q 1990, should decline over time to 20-30%. Our summary income model is presented below. Clearly, our assumptions on shares outstanding will change significantly if the

Company makes a greater number of cash acquisitions, or if the price of Sanifill stock moves significantly.

(FY: December 31)	Sanifill Income Model 1989A	1990E	1991E
	(In millions, except EPS)		
Revenues	$12.1	$25.0	$40.0
Net Income	$1.2	$4.0	$6.4
% Margin	9.9%	16.0%	16.0%
EPS	$0.20	$0.50	$0.75
Avg. Shares Out.	6.1	8.0	8.5

RISK FACTORS

Beyond assuming the normal investment risks associated with any emerging growth company, we think Sanifill investors must come to grips with the following issues:

(1) **Control of Waste Streams**--By choosing to stay out of the collection end of the solid waste business, Sanifill is betting that its landfills will be able to attract waste from third-party customers. Clearly, in an area where disposal capacity is very scarce, such as Atlanta, this is not a problem. In an area such as Houston where several solid waste companies are trying to permit additional capacity, Sanifill must pay close attention to the supply/demand picture for landfill capacity.

(2) **Environmental Liabilities**--Any landfill can leak and potentially contaminate the groundwater. The remedial costs and legal liabilities to the owner can be staggering. We think this is a minimal risk with Sanifill for two reasons: (a) the Company has an experienced team of environmental engineers (under Chuck Williams) and landfill operators (under Mike Adams) and (b) the stricter Subtitle D regulations have been operative for some time now; Sanifill was not out buying landfill sites 5-10 years ago when landfill regulations were in their infancy and people did not realize what the future would bring. Finally, investors should realize that there are numerous scientific methods for analyzing the geology of a landfill. In addition, states keep public records on all landfills noting past infractions, changes in ownership... Sanifill will conduct thorough due diligence before completing any acquisitions.

VALUATION: HOW RICH SHOULD IT BE?

With the shares having a market value of $119 million, it appears that Wall Street has placed a substantial value on Sanifill's concept and people. On the other hand, several solid waste companies sell at 3-4 times revenues. We believe that Sanifill will become a $100 million company (sales) in 2-3 years. The stock, therefore, remains

a compelling investment opportunity with significant price appreciation potential.

BALANCE SHEET: A SOLID BASE

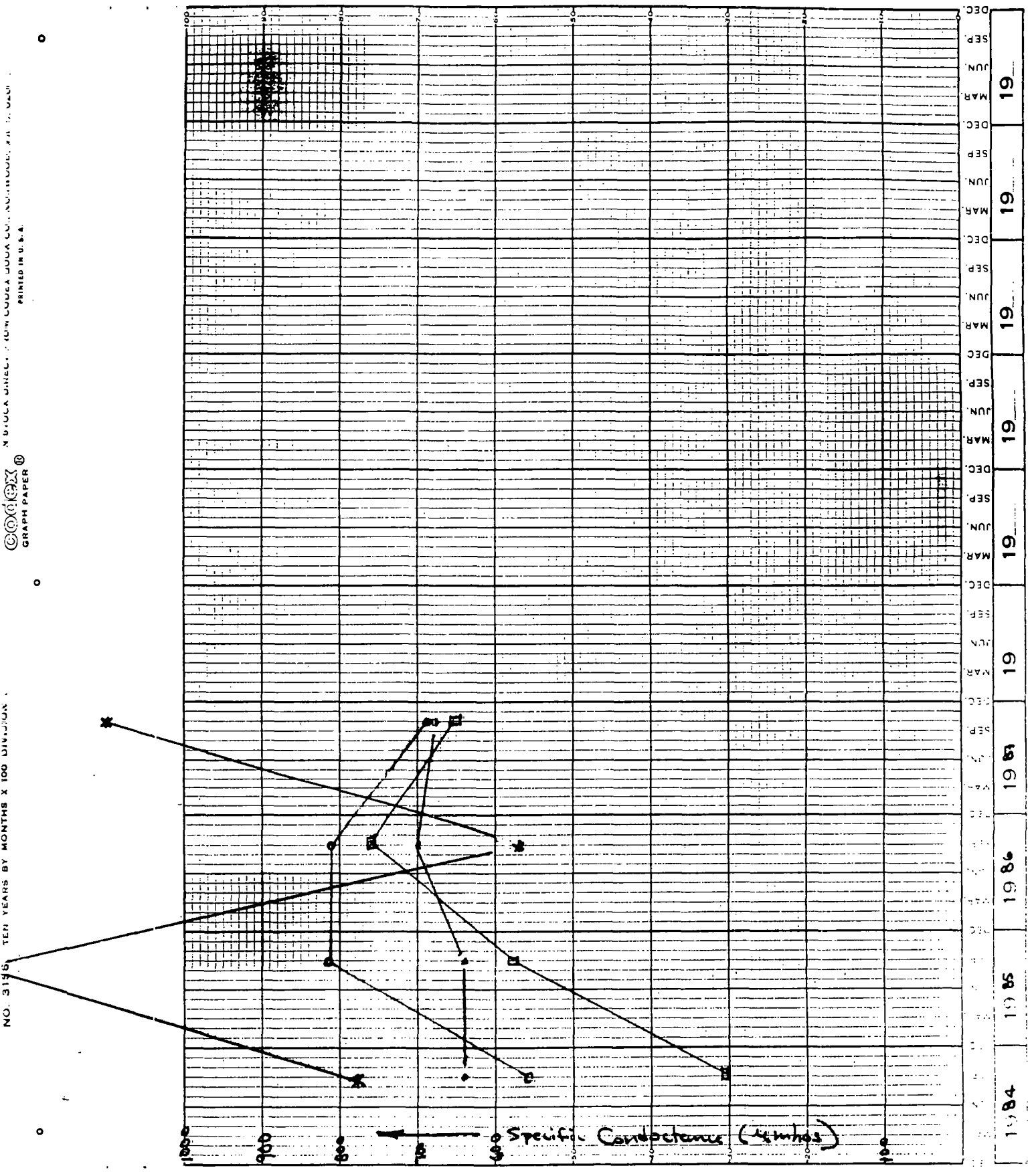
Sanifill recently completed an offering of 2.3 million shares at $9.50 per share, netting the Company approximately $19 million after expenses, of which about $9 million was used to fund pre-IPO mergers. The Company now has over $10 million in cash, and a long-term debt to total capital ratio of about 15%. We think the Company could support additional leverage if necessary as most other solid waste companies have debt-to-total capital ratios in the range of 30-40%.

Sanifill Summary Balance Sheet (3/31/90)
(Dollars in millions)

ASSETS		LIABILITIES & EQUITY	
Cash	$10.3	Current Debt	$ 3.1
Accounts Receivable	1.5	Accounts Payable	1.1
Other	0.6	Other	0.7
Current Assets	$12.4	Current Liabilities	$ 4.9
Property & Equipment	$ 8.4	Long-Term Debt	$ 2.3
Other Assets	0.6	Closure Reserves	1.8
		Stockholders' Equity	$12.4
Total	$21.4	Total	$21.4

Additional Information Available Upon Request.

MW-3 MW-4 MW-5 MW-1 (upgradient)



SOUTHERN STATES, BOLTON RD., FULTON CO.

Municipal Solid Waste Control Program - EPD
3420 Norman Berry Drive - 7th Floor
Hapeville, Georgia 30354
404/656-2836

WATER MONITORING REPORT

SOLID WASTE DISPOSAL SITES

Site Name: FULTON CO. - SOUTHERN STATES SANITARY LANDFILL

Type Sample: ☐ Background ☒ Operational ☐ Other _____

Monitoring Results — Sampling Date 10/13/87

Monitoring Station #	Analytical Results: pH	Specific Conductance (µmhos)	Chlorides (mg/l)	Depth to Groundwater -Wells Only- (ft.)	Physical Condition of Monitoring Station (Describe)
MW-1	6.3	680	50	73.68'	CONCRET PAD INTACT, PADLOCKED
MW-2	6.5	450	9.0	58.79'	" " " "
MW-3	5.7	1100	180	26.82	" " " " GRASSY MOUND AROUND PIPE
MW-4	6.2	690	53	27.75'	" " " "
MW-5	6.2	650	29	27.60'	" " " "

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Laboratory LAW ENVIRONMENTAL Chemist Wendy A. Wolfe Telephone #404 1421-3400 (AB's AF)

SWM-23 (OVER) 3/85

LAW ENVIRONMENTAL, INC.

NATIONAL LABORATORIES DIVISION
112 TOWNPARK DRIVE
KENNESAW, GEORGIA 30144-5599
404-421-3400

October 26, 1987

Southern States Landfill
4696 Oakdale Road
Smyrna, Georgia 30080

Attention: Mr. Eric Cash

Lab Job Number: 223851

Subject: Chemical analyses of samples received on October 13, 1987.

Dear Mr. Cash:

Law Environmental National Laboratories has completed its analyses of your samples and reports the results on the following pages. These results relate only to the contents of the samples as submitted. This report shall not be reproduced except in full without the approval of Law Environmental National Laboratories.

If there are any questions, please do not hesitate to contact us.

Sincerely,

LAW ENVIRONMENTAL NATL LABS

Wendy A. Wolfe
Wet Laboratory Supervisor

C. H. McBride
Quality Control Coordinator

WAW:CHM/mlt

Attachment: Data Report
Invoice

LAB #: 87-0824-001 PROJ #: 22-3851.00 DEPT: 201 MGR: WPB JOB #: CUST: 72

SAMPLE STATION.... MW-1 DGW
MATRIX..... MW
TYPE..... GRAB
SAMPLES.... 005
COLLECTOR.. JQ

BEG DATE/TIME..... 10/13/87 09:45
END DATE/TIME..... 10/13/87 09:45
RCVD DATE/TIME.... 10/13/87 14:00
RCVD FROM/BY..... JQ /BC
CHAIN OF CUSTODY.. 01637
CONTAINERS..... 001

REMARKS

FIELD ANALYSIS RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Depth to Groundwater	WET TAPE	feet	.01	73.68'	10/13/87	0	JQ	WAW

INORGANIC RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Chloride	EPA 325.3	mg/l	0.2	50	10/14/87	0	MC	WAW
pH	EPA 150.1	units	2-12	6.3	10/13/87	0	JH	WAW
Specific Conductance @ 25 oC/cm	EPA 120.1	umhos	1	680	10/14/87	0	MC	WAW

LAB #: 87-0824-002 PROJ #: 22-3851.00 DEPT: 201 MGR: WPB JOB #: CUST: 72

SAMPLE STATION.... MW-2 DGW
MATRIX..... MW
TYPE..... GRAB
SAMPLES.... 005
COLLECTOR.. JQ

BEG DATE/TIME..... 10/13/87 10:18
END DATE/TIME..... 10/13/87 10:18
RCVD DATE/TIME.... 10/13/87 14:00
RCVD FROM/BY..... JQ /BC
CHAIN OF CUSTODY.. 01637
CONTAINERS..... 001

REMARKS

FIELD ANALYSIS RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Depth to Groundwater	WET TAPE	feet	.01	58.79'	10/13/87	0	JQ	WAW

INORGANIC RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Chloride	EPA 325.3	mg/l	0.2	9.0	10/14/87	0	MC	WAW
pH	EPA 150.1	units	2-12	6.5	10/13/87	0	JH	WAW
Specific Conductance @ 25 oC/cm	EPA 120.1	umhos	1	450	10/14/87	0	MC	WAW

LAB #: 87-0824-003 PROJ #: 22-3851.00 DEPT: 201 MGR: WPB JOB #: CUST: 72

SAMPLE STATION.... MW-3 DGW
MATRIX..... MW
TYPE..... GRAB
SAMPLES.... 005
COLLECTOR.. JQ

BEG DATE/TIME..... 10/13/87 12:25
END DATE/TIME..... 10/13/87 12:25
RCVD DATE/TIME.... 10/13/87 14:00
RCVD FROM/BY..... JQ /BC
CHAIN OF CUSTODY.. 01637
CONTAINERS..... 001

REMARKS

FIELD ANALYSIS RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Depth to Groundwater	WET TAPE	feet	.01	26.82'	10/13/87	0	JQ	WAW

INORGANIC RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Chloride	EPA 325.3	mg/l	0.2	180	10/14/87	0	MC	WAW
pH	EPA 150.1	units	2-12	5.7	10/13/87	0	JH	WAW
Specific Conductance @ 25 oC/cm	EPA 120.1	umhos	1	1100	10/14/87	0	MC	WAW

LAB #: 87-0824-004 PROJ #: 22-3851.00 DEPT: 201 MGR: WPB JOB #: CUST: 72

SAMPLE STATION.... MW-4 DGW
MATRIX..... MW
TYPE..... GRAB
SAMPLES.... 005
COLLECTOR.. JQ

BEG DATE/TIME..... 10/13/87 11:42
END DATE/TIME..... 10/13/87 11:42
RCVD DATE/TIME.... 10/13/87 14:00
RCVD FROM/BY..... JQ /BC
CHAIN OF CUSTODY.. 01637
CONTAINERS..... 001

REMARKS

FIELD ANALYSIS RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Depth to Groundwater	WET TAPE	feet	.01	27.75'	10/13/87	0	JQ	WAW

INORGANIC RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Chloride	EPA 325.3	mg/l	0.2	53	10/14/87	0	MC	WAW
pH	EPA 150.1	units	2-12	6.2	10/13/87	0	JH	WAW
Specific Conductance @ 25 oC/cm	EPA 120.1	umhos	1	690	10/14/87	0	MC	WAW

DATA REPORT

LAB #: 87-0824-005 PROJ #: 22-3851.00 DEPT: 201 MGR: WPB JOB #: CUST: 72

SAMPLE STATION.... MW-5 DGW
MATRIX..... MW
TYPE..... GRAB
SAMPLES.... 005
COLLECTOR.. JG

BEG DATE/TIME..... 10/13/87 11:05
END DATE/TIME..... 10/13/87 11:05
RCVD DATE/TIME.... 10/13/87 14:00
RCVD FROM/BY..... JG /BC
CHAIN OF CUSTODY.. 01637
CONTAINERS..... 001

REMARKS

FIELD ANALYSIS RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Depth to Groundwater	WET TAPE	feet	.01	27.60'	10/13/87	0	JG	WAW

INORGANIC RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Chloride	EPA 325.3	mg/l	0.2	29	10/14/87	0	MC	WAW
pH	EPA 150.1	units	2-12	6.2	10/13/87	0	JH	WAW
Specific Conductance @ 25 oC/cm	EPA 120.1	umhos	1	650	10/14/87	0	MC	WAW

CHAIN OF CUSTODY RECORD

1651

LAW ENVIRONMENTAL
NATIONAL LABORATORY
112 TOWN PARK DRIVE
KENNESAW, GEORGIA 30144
(404) 421-3400

SAMPLING INFORMATION

NAME OF FACILITY: Southern States Landfill
STREET ADDRESS: 4696 Oakdale Road
CITY/STATE: Smyrna, GA ZIP: 30080

PROJECT NAME: Southern States Landfill
JOB NO.: 55 3851
SAMPLERS (SIGNATURE): John M Quinn
SAMPLING DATE: 10- -87

TIME	GRAB	COMP.	SOURCE CODE*	SAMPLE STATION DESCRIPTION	TOTAL NO. OF CONTAINERS	CONTAINER TYPE: 1 L G, P (HNO_3)
0945	✓		MW	MW-1 DGW-	1	1
1018	✓		MW	MW-2 "	1	1
1225	✓		MW	MW-3 "	1	1
1142	✓		MW	MW-4 "	1	1
1105	✓		MW	MW-5 "	1	1

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
(SIGNATURE)		(SIGNATURE)	(SIGNATURE)		(SIGNATURE)
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED AT LABORATORY:
(SIGNATURE)		(SIGNATURE)	John M Quinn (SIGNATURE)	10-13-87 1400	Debbie L Carter (SIGNATURE) 10/13/87 1400

DISTRIBUTION: ORIGINAL AND PINK COPIES ACCOMPANY SAMPLE SHIPMENT TO LABORATORY. PINK COPY RETAINED BY LABORATORY. YELLOW COPY RETAINED BY SAMPLERS.

REMARKS: DGW = Depth to Groundwater
Report DGW for all wells
All samples - pH, SC, Cl-

* SOURCE CODES:
RECOVERY WELL - RW
RCRA MONITORING WELL - MW
SOIL/SEDIMENT - SO
SLUDGE - SL
NPDES DISCHARGE - ND
DRINKING WATER - DW
HAZARDOUS WASTE - HW

FIELD SAMPLING REPORT

LAW ENVIRONMENTAL SERVICES
MARIETTA, GEORGIA

JOB NO. 55 3851
JOB NAME Southern States L.F.
DATE 10-13-87 TIME ____
SAMPLING POINT(LOCATION) MW-1

SAMPLE INFORMATION

SAMPLE I.D. NO.: ____

MATERIAL: ✓ WATER ____ SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: ✓ GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS ?: ____ YES ____ NO ✓ UNKNOWN DEPTH TO GROUNDWATER 73.68'

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Plastic	1L	1	—	pH, SC, Cl-
Well diameter -		6 "~~gal~~	steel	

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR, ETC.)
TD - 185.00 Hold 74.00' Cut 0.32' DGW - 73.68
SWT 111.32
30 bails taken

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

FIELD MEASUREMENTS

SAMPLES COLLECTED BY: IQ

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS
Sampled with	pvc bailer		

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

GENERAL INFORMATION

WEATHER Sunny AIR TEMP. 70°F

SAMPLES SHIPPED TO: LENL

SPECIAL HANDLING: ice-packed

MODE OF SHIPMENT: ✓ CAR/TRUCK ____ BUS ____ PLANE ____ COMMER. VEH.

FIELD SAMPLING REPORT

LAW ENVIRONMENTAL SERVICES
MARIETTA, GEORGIA

JOB NO. 55 3851
JOB NAME Southern States L.F.
DATE 10-13-87 TIME
SAMPLING POINT (LOCATION) MW-2

SAMPLE INFORMATION

SAMPLE I.D. NO.:

MATERIAL: ✓ WATER ____ SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: ✓ GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS ?: ____ YES ____ NO ✓ UNKNOWN DEPTH TO GROUNDWATER 58.79'

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Plastic	1Q	1	—	pH, SC, Cl-
Well diameter -		6"	steel	

COMMENTS: (WELL PURGING VOLUME: SAMPLE APPEARANCE: ODOR: COLOR, ETC.)
TD 303.00' Held 60.00' Cut 1.21' DGW - 58.79'
SWT - 244.21'
30 bails taken

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

FIELD MEASUREMENTS

SAMPLES COLLECTED BY: JQ

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS
Sampled with	pvc bailer		

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

GENERAL INFORMATION

WEATHER sunny AIR TEMP. 70°F

SAMPLES SHIPPED TO: LENL

SPECIAL HANDLING: ice-packed

MODE OF SHIPMENT: ✓ CAR/TRUCK ____ BUS ____ PLANE ____ COMMER. VEH.

FIELD SAMPLING REPORT

LAW ENVIRONMENTAL SERVICES
MARIETTA, GEORGIA

JOB NO. 55 3851
JOB NAME Southern States L.F.
DATE 10-13-87 TIME ____
SAMPLING POINT (LOCATION) MW-3

SAMPLE INFORMATION

SAMPLE I.D. NO.: ____

MATERIAL: ✓ WATER ____ SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: ✓ GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS ?: ____ YES ____ NO ✓ UNKNOWN DEPTH TO GROUNDWATER 26.82'

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Plastic	1ℓ	1	—	pH, SC, Cl-
Well diameter - 4" p.v.c.				

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR, ETC.)
TD 55.00' Held 28.00 Cut 1.18 DGW - 26.82'
SWT - 28.18
5 C bails taken

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

FIELD MEASUREMENTS

SAMPLES COLLECTED BY: JQ

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS
Sampled w/ bailer	pvc bailer		

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

GENERAL INFORMATION

WEATHER sunny AIR TEMP. 70°F

SAMPLES SHIPPED TO: LENL

SPECIAL HANDLING: ice-packed

MODE OF SHIPMENT: ✓ CAR/TRUCK ____ BUS ____ PLANE ____ COMMER. VEH.

FIELD SAMPLING REPORT

LAW ENVIRONMENTAL SERVICES
MARIETTA, GEORGIA

JOB NO. 55 3851
JOB NAME Southern States L.F.
DATE 10-13-97 TIME
SAMPLING POINT(LOCATION) MW-4

SAMPLE INFORMATION

SAMPLE I.D. NO.:

MATERIAL: ✓ WATER ____ SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: ✓ GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS ?: ____ YES ____ NO ✓ UNKNOWN DEPTH TO GROUNDWATER 27.75

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Plastic	1L	1	—	pH, SC, Cl-
Well	diameter -	4	pvc	

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR, ETC.)
TD 42.00' Held 29.10 Cut 1.35 DGW - 27.75
SWT 1425
35 bails taken

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

FIELD MEASUREMENTS

SAMPLES COLLECTED BY: JQ

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS
Sampled with	pvc bailer		

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

GENERAL INFORMATION

WEATHER Sunny AIR TEMP. 70°F

SAMPLES SHIPPED TO: LENL

SPECIAL HANDLING: ice-packed

MODE OF SHIPMENT: ✓ CAR/TRUCK ____ BUS ____ PLANE ____ COMMER. VEH.

FIELD SAMPLING REPORT

LAW ENVIRONMENTAL SERVICES
MARIETTA, GEORGIA

JC NO. 55 3851
JOB NAME Southern States L.F.
DATE 10-13-87 TIME
SAMPLING POINT/LOCATION MW-5

SAMPLE INFORMATION

SAMPLE I.D. NO.:

MATERIAL: ✓ WATER ____ SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: ✓ GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS ?: ____ YES ____ NO ✓ UNKNOWN DEPTH TO GROUNDWATER 27.60'

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Plastic	1Q	1	—	pH, SC, Cl-
Well diameter -	4" pvc			

COMMENTS: (WELL PURGING VOLUME: SAMPLE APPEARANCE: ODOR: COLOR, ETC.)
TD 44.00' Held 28.50' Cut 1.90 DGW = 27.60'
SWT = 16.40'
40 bails taken

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

FIELD MEASUREMENTS

SAMPLES COLLECTED BY: JQ

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS
Sampled	with pvc bailer		

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

GENERAL INFORMATION

WEATHER Sunny AIR TEMP. 70°F

SAMPLES SHIPPED TO: LENL

SPECIAL HANDLING: ice-packed

MODE OF SHIPMENT: ✓ CAR/TRUCK ____ BUS ____ PLANE ____ COMMER. VEH.

LAB #: 86-0446-004 PROJ #: MY-0038.51 DEPT: 592 MGR: WPB JOB #: CUST: 72

SAMPLE STATION.... MW-1
MATRIX..... MW
TYPE..... GRAB
SAMPLES.... 004
COLLECTOR.. WAW

BEG DATE/TIME..... 09/19/86 03:00
END DATE/TIME..... 09/19/86 03:00
RCVD DATE/TIME.... 09/19/86 04:00
RCVD FROM/BY..... WAW/ISH
CHAIN OF CUSTODY.. 00000
CONTAINERS..... 001

REMARKS

FIELD ANALYSIS RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	ZR	ANALYST	VER
Depth to Groundwater	WET TAPE	feet	.01	75.2	9/19/86	0	WAW	WAW

INORGANIC RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	ZR	ANALYST	VER
Chloride	EPA 325.3	mg/l	0.2	66	9/22/86	0	JH	WAW
pH	EPA 150.1	units	2-12	6.5	9/22/86	0	JH	WAW
Specific Conductance @ 25 oC	EPA 120.1	umhos	1	700	9/22/86	0	JH	WAW

LAB #: 86-0446-003 PROJ #: MY-0038.51 DEPT: 592 MGR: WPB JOB #: CUST: 72

SAMPLE STATION.... MW-5
MATRIX..... MW
TYPE..... GRAB
SAMPLES.... 004
COLLECTOR.. WAW

BEG DATE/TIME..... 09/19/86 02:15
END DATE/TIME..... 09/19/86 02:15
RCVD DATE/TIME.... 09/19/86 04:00
RCVD FROM/BY..... WAW/ISH
CHAIN OF CUSTODY.. 00000
CONTAINERS..... 001

REMARKS

FIELD ANALYSIS RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Depth to Groundwater	WET TAPE	feet	.01	28.12	9/19/86	0	WAW	WAW

INORGANIC RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	%R	ANALYST	VER
Chloride	EPA 325.3	mg/l	0.2	48	9/22/86	0	JH	WAW
pH	EPA 150.1	units	2-12	6.3	9/22/86	0	JH	WAW
Specific Conductance @ 25 oC	EPA 120.1	umhos	1	760	9/22/86	0	JH	WAW

LAB #: 86-0446-002 PROJ #: MY-0038.51 DEPT: 592 MGR: WPB JOB #: CUST: 72

SAMPLE STATION.... MW-4
MATRIX..... MW
TYPE..... GRAB
SAMPLES.... 004
COLLECTOR.. WAW

BEG DATE/TIME..... 09/19/86 01:35
END DATE/TIME..... 09/19/86 01:35
RCVD DATE/TIME.... 09/19/86 04:00
RCVD FROM/BY..... WAW/ISH
CHAIN OF CUSTODY.. 00000
CONTAINERS..... 001

REMARKS

FIELD ANALYSIS RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	ZR	ANALYST	VER
Depth to Groundwater	WET TAPE	feet	.01	24.3	9/19/86	0	WAW	WAW

INORGANIC RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	ZR	ANALYST	VER
Chloride	EPA 325.3	mg/l	0.2	57	9/22/86	0	JH	WAW
pH	EPA 150.1	units	2-12	6.2	9/22/86	0	JH	WAW
Specific Conductance @ 25 oC	EPA 120.1	umhos	1	810	9/22/86	0	JH	WAW

LAB #: 86-0446-001 PROJ #: MY-0038.51 DEPT: 592 MGR: WPB JOB #: CUST: 72

SAMPLE STATION.... MW-3
MATRIX..... MW
TYPE..... GRAB
SAMPLES.... 004
COLLECTOR.. WAW

BEG DATE/TIME..... 09/19/86 12:40
END DATE/TIME..... 09/19/86 12:40
RCVD DATE/TIME.... 09/19/86 04:00
RCVD FROM/BY..... WAW/ISH
CHAIN OF CUSTODY.. 00000
CONTAINERS..... 001

REMARKS

FIELD ANALYSIS RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	ZR	ANALYST	VER
Depth to Groundwater	WET TAPE	feet	.01	15.3	9/19/86	0	WAW	WAW

INORGANIC RESULTS

PARAMETER	METHOD	UNITS	DETEC LIMT	RESULTS	TEST DATE	ZR	ANALYST	VER
Chloride	EPA 325.3	mg/l	0.2	41	9/22/86	0	JH	WAW
pH	EPA 150.1	units	2-12	5.9	9/22/86	0	JH	WAW
Specific Conductance @ 25 oC	EPA 120.1	umhos	1	570	9/22/86	0	JH	WAW

Southern State - Bolton Rd. SI

SOUTHERN STATES LANDFILL, INC.

4696 OAKDALE ROAD
SMYRNA, GA 30080
435-9962

June 23,1986

Ms. Barbara Ross, P.E.
205 Butler Street, S.E.
Floyd Towers East
Atlanta, Georgia 30334

Ms. Ross,

Attached you will find the monitoring well water levels you asked Mr. Cash to send you.

Should you need further information or assistance please feel free to contact me or Mr. Cash.

Sincerely,

Larry E. Woodall

Larry E. Woodall
Business Manager

Wm Fulton - Southern States SL ET
Bolton Rd. Sn

LAW ENVIRONMENTAL SERVICES
DIVISION OF LAW ENGINEERING TESTING COMPANY
2749 DELK ROAD, S.E.
MARIETTA, GEORGIA 30067
(404) 952-9005

October 23, 1985

Southern States LF, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

Attention: Raymond Cash

Dear Mr. Cash:

Enclosed are the results of the chemical analyses performed on the five water samples Vince Tersegno collected on September 25, 1985.

If you have any questions, please do not hesitate to call me.

Sincerely,

LAW ENVIRONMENTAL SERVICES

James M. Maroncelli

James M. Maroncelli, E.P.
Chemistry Laboratory Manager

William E. Imbur
Manager of Testing and Measurement

JMM:WEI/mlt

Enclosures

Job Number: MY 3851

Job Number: MY 3851
Lab Number: 85-09-25-01
Client ID: MW - 1, 9-25-85

Parameter	Results
pH	6.5
Chloride (mg/l)	7.5
Specific Conductance µmho/cm at 25°C	640
Groundwater Depth * (ft)	72.43

* Depth of the groundwater measured from the top of the casing.

Job Number: MY 3851
Lab Number: 85-09-25-03
Client ID: MW - 4, 9-25-85

Parameter	Results
pH	6.3
Chloride (mg/l)	0.8
Specific Conductance µmho/cm at 25°C	815
Groundwater Depth * (ft)	24.49

* Depth of the groundwater measured from the top of the casing.

Job Number: MY 3851
Lab Number: 85-09-25-02
Client ID: MW - 3, 9-25-85

Parameter	Results
pH	5.8
Chloride (mg/l)	230
Specific Conductance µmho/cm at 25 C	1300
Groundwater Depth * (ft)	21.18

* Depth of the groundwater measured from the top of the casing.

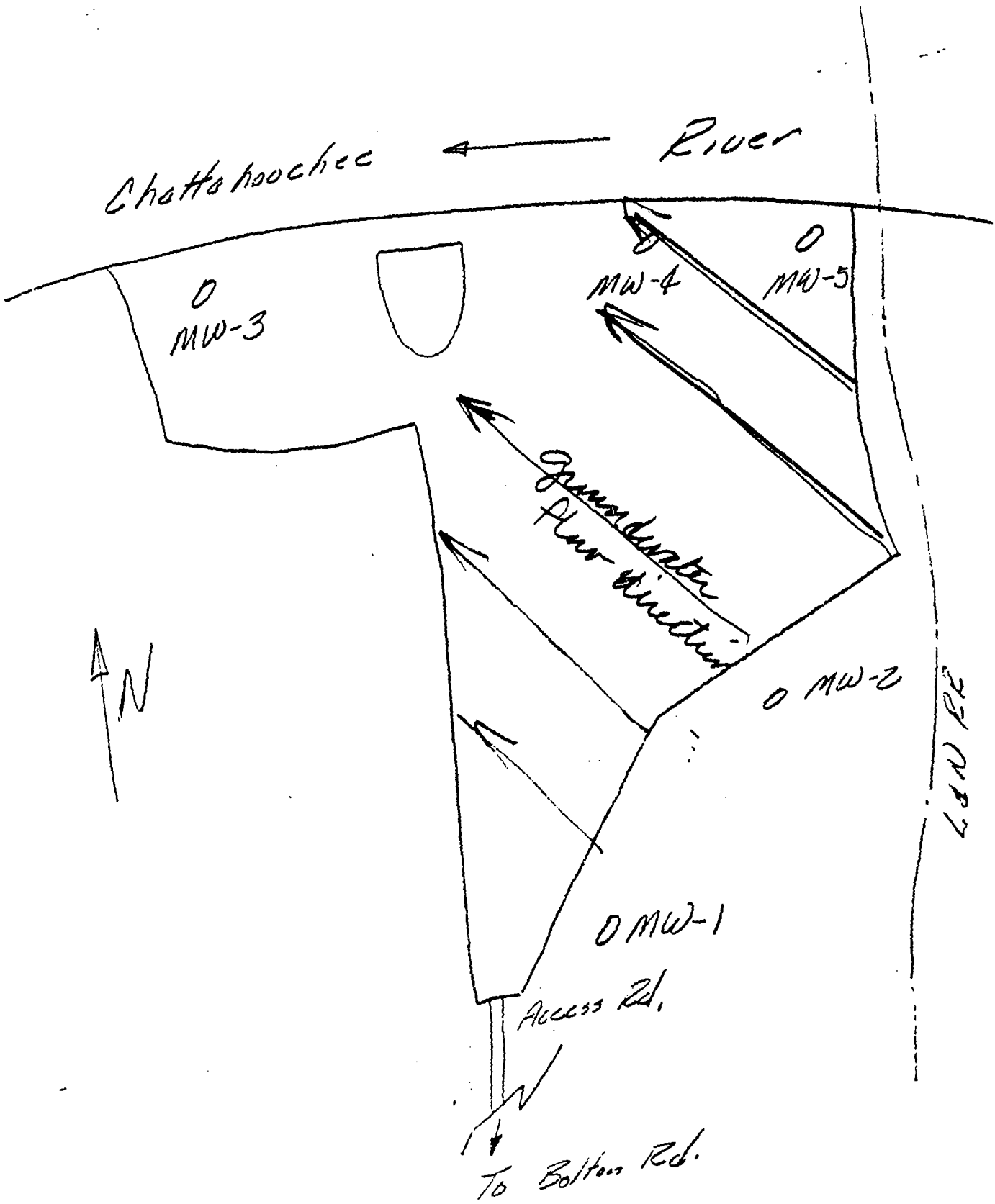
MY 3851
85-09-25-04
MW - 5, 9-25-85 ✓

SM 2

	Results
	6.4
mg/l)	<0.2
onductance : 25 °C	575
:r Depth * (ft)	23.72

of the groundwater measured from the top of the casing.

(SL)


Chattahoochee
River
MW-3
MW-4
MW-5
Groundwater Flow direction
MW-2
N
MW-1
Access Rd.
To Bolton Rd.

Fulton (Atlanta)
Sou. States - Bolton Rd.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

March 23, 1988

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Fulton County - Southern States Landfill, Inc., Bolton Road

Dear Mr. Cash:

Representatives of the Solid Waste Management Program have reviewed the assessment monitoring plan dated January 30, 1988, and prepared by Tribble and Richardson, Inc. This plan is approved contingent upon the following stipulations:

1. The range of analysis must be expanded to include the drinking water standard metals and the volatile organic compounds on the Clean Water Act Priority Pollutant list.

2. The results of each sampling must be reported to the Environmental Protection Division within 30 days of analysis.

If you have any questions regarding this matter, please contact Harold C. Gillespie at 404/656-2836.

Sincerely,

James W. Dunbar

James W. Dunbar
Program Manager
Solid Waste Management Program

JWD:hgf/014
c: John D. Taylor, Jr.
Morgan V. Cantrell
William F. Hodges
File (WM)

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

November 19, 1987

MEMORANDUM

TO: James W. Dunbar JWD

THROUGH: Harold Gillespie

FROM Tom Watson TW 11/19/87

SUBJECT: Southern States Bolton Road Water Monitoring

Attached is a summary of specific conductance data from Southern States Sanitary Landfill, to date. Levels of specific conductance are unusually high, and have been high since the facility opened. Note that upgradient levels are also high.

There may be several contributing factors at work here, i.e., contamination could be from somewhere else. I suggest the attached letter be sent to the owner/operator.

TWW:sf
Attachments
c: File (WM)

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

MEMORANDUM

TO: Damon Riggs DATE 10/31/89

T+R P.O. Box 13197; Macon, Ga. 31208-3197
4875 Riverside Dr. Macon, Ga. 31210-1117

FROM: Barbara Howard, P.G.

3920 Norman Berry Dr. 7th Fl. Hapeville, Ga. 303

SUBJECT: Additions/Corrections to Design and Operational Plan for:

Fulton Co. - Southern States LF, Bolton Rd. (SL)

The following is a list of corrections and/or additions that are needed to the subject D & O Plan. The marked-up plan is also being returned for your use in making these corrections.

Should you have any questions regarding any of these items, feel free to call me at 404/656-2836.

sf
Enclosures
c:
Morgan V. Cantrell

✓File (SWR)

---

1. When will the added soil berm at 25ft basin/waste toppers be built. A construction and fill direction sequence are needed to assure that surface water, impounded by the soil toppers, will be directed and will flow into the basin at its western end for "sedimentation".

* Surface water on fill area west of the basin is to be directed to the basin. Current plan does not indicate sediment control for.

OVER

* New item
See marked-up plan - please return with revised plan.

Sub title: Fulton Co. - Southern States, Bolton Rd (SL)

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

MEMORANDUM

10/17/89

TO: Damon Riggs
T & R

FROM: Barbara Howard, PE
SWM/PRU

SUBJECT: Additions/Corrections to Design and Operational Plan for:
Fulton Co. - ~~Southern~~ States Landfill, Bolton Rd. (SL)

The following is a list of corrections and/or additions that are needed to the subject D & O Plan. The marked-up plan is also being returned for your use in making these corrections.

Should you have any questions regarding any of these items, feel free to call me at 404/656-2836.
Please return marked-up plan with revised plan sheets

sf
Enclosures
c: Morgan V. Cantrell

✓File (SWR)

---

1. There is to be a min. separation of 25 ft (undisturbed, unfilled buffer) between the basin and the fill area. This buffer requires specification in the plan and on all profiles.

2. Soil fill areas should be specified to a min 95% standard Proctor density (of maximum dry density.

3. Sediment Basin data needed on plan sheet:
a) The req'd sediment volume = 67 yd^3/disturbed acres

OVER

LAND PROTECTION BRANCH

HAZARDOUS WASTE ANALYSIS REQUE

PROJECTED DATE: 11/7/88 PROJECT: Fulton Co - Southern States SE COLLECTOR: Lael H. Butler

NO. SAMPLES: 4 LOG NOS. _____ LIQUID X SOLID _____ SOIL _____

CAUSTIC _____ ACID _____ SOLVENT _____ UNKNOWN _____ SLUDGE _____

INFORMATION FOUND: The facility is operating under an assessment (contamination) monitoring plan which requires quarterly samplings for routine parameters, as well as metals + volatiles. July samplings indicated levels of Ca, Cr, Pb, & methylene chloride, 1,1,1-tetrachloroethane, 1,1,2-trichloroethane which meet or exceed drinking water limits.

HAZARDOUS WASTE NOS. _____

HAZARDOUS HANDLING: Routine.

WORK PRIORITY (CRITICAL NEED) Normal.

METALS ANALYSES

	TOT	DIS			
METALS (DW NO Hg)	☒	☐	EP METALS (DW NO Hg) ☐	100X ☐	30X ☐
METALS (DW WITH Hg)	☐	☐	EP METALS (DW WITH Hg)		

	TOT	DIS		TOT	DIS				
NICKEL	☐	☐	CADMIUM	☐	☐	EP NICKEL	☐	EP CADMIUM	☐
ARSENIC	☐	☐	LEAD	☐	☐	EP ARSENIC	☐	EP LEAD	☐
CHROMIUM	☐	☐	MERCURY	☐	☐	EP CHROMIUM	☐	EP MERCURY	☐
CHROM-HEX	☐	☐	SELENIUM	☐	☐	EP CHROM-HEX	☐	EP SELENIUM	☐
_____	☐	☐	_____	☐	☐	_____	☐	_____	☐

SPECIFIC ANALYSES

pH	☒	SULFIDE	☐	% SOLIDS	☐	_____	☐
FLASH PT	☐	SP.COND.	☒	TOT. PHENOLS	☐	_____	☐
CYANIDE TOT.	☐	TOC	☐	CHLORIDE	☒	_____	☐
CYANIDE AM.	☐	TOH	☐	FLUORIDE	☐	_____	☐

ORGANIC ANALYSES

PESTICIDE SCREEN (EC)	☐	GC-MS ACID EXTRACTABLES	☐
PCB	☐	GC-MS BASE/NEUTRALS	☐
VOLATILE ORGANICS (VOA)	☒		

SPECIFIC ORGANICS: Methylene Chloride
1,1,1-tetrachloroethane
1,1,2-trichloroethane

APPROVED: _____ AUTHORIZED: _____

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION Raymond Cash

COLLECTED _____ BY T&R SAMPLE: 24 HOUR COMPOSITE

RECEIVED _____ BY T&R FLOW PROPORTIONAL, GRAB

REPORTED 8-30-89 RELEASED BY: Kathy S. Bragg

LOCATION

ANALYSIS	UNITS	collected 7-18-89 Well #3	7-25-89 Well #4	BY	DATE RUN	METHOD
Arsenic	mg/l	< .005	(a)	JK	7-25	307B
Barium	mg/l	< .5	< .5	JK	7-28	303C
Cadmium	mg/l	< .005	(a)	JK	7-25	310A
Chromium	mg/l	< .005	< .005	JB	7-25	312A
Copper	mg/l	.011	< .1	JB	7-26	313A
Mercury	mg/l	< .001	(a)	JB	8-11	245.1
Selenium	mg/l	< .005	(a)	JB	7-26	270.2
Silver	mg/l	< .005	< .01	JB	7-26	324A
Zinc	mg/l	< .005	.019	JB	7-25	328A

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

a) Lab error - will recollect during next scheduled sampling

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners

Laboratory Services

CLIENT Southern States Landfill ATTENTION Raymond Cash

COLLECTED _____ BY T&R SAMPLE: 24 HOUR COMPOSITE

RECEIVED _____ BY T&R FLOW PROPORTIONAL, GRAB

REPORTED 8-31-89 RELEASED BY: Kathy S. Bragg

LOCATION						
ANALYSIS	UNITS	collected 7-18-89 Well #1	7-25-89 Well #2	BY	DATE RUN	METHOD
Arsenic	mg/l	< .005	< .005	JK	7-25	307B
Barium	mg/l	< .5	< .5	JK	7-28	303C
Cadmium	mg/l	< .005	< .005	JK	7-25	310A
Chromium	mg/l	< .005	< .005	JB	7-28	312A
Copper	mg/l	.027	.008	JB	7-26	313A
Mercury	mg/l	.001	< .001	JB	8-11	
Selenium	mg/l	< .005	< .005	JB	7-26	
Silver	mg/l	< .005	<.005	JB	7-26	324A
Zinc	mg/l	< .005	< .10	JB	7-25	328A

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION _____

COLLECTED 7-25-89 BY T&R SAMPLE: 24 HOUR COMPOSITE

RECEIVED 7-25-89 BY T&R FLOW PROPORTIONAL, GRAB

REPORTED 8-30-89 RELEASED BY: Kathy S. Bragg

LOCATION

ANALYSIS	UNITS	Well #5	Surface Water	BY	DATE RUN	METHOD
Arsenic	mg/l	.006	< .005	JB	8-3	307B
Barium	mg/l	< .5	< .5	JB	7-28	303C
Cadmium	mg/l	< .005	< .005	JB	7-28	310A
Chromium	mg/l	< .005	< .005	JB	7-28	312A
Copper	mg/l	< .005	< .005	JB	8-10	313A
Mercury	mg/l	< .001	< .001	JB	8-11	
Selenium	mg/l	< .005	< .005	JB	8-3	
Silver	mg/l	<.05	<.05	JB	8-3	324A
Zinc	mg/l	< .10	< .10	JB	8-14	328A

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

P.O. BOX 13147 MACON, GA. 31208-0147 / OFFICE 4875 RIVERSIDE DRIVE 31210

Solid Waste Management Program
3420 Norman Berry Drive - 7th Floor
Hapeville, Georgia 30354
404/656-2836

890919

WATER MONITORING REPORT

SOLID WASTE DISPOSAL SITES

REPORTED 9-5-89

Site Name: Southern States Landfill - Bolton Road

Type Sample: ☐ Background ☒ Operational ☐ Other

Monitoring Results

Sampling Date 7-18-89 7-25-89

Monitoring Station #	Analytical Results			Depth to Groundwater -Wells Only- (ft.)	Physical Condition of Monitoring Station (Describe)
	pH	Specific Conductance (µmhos)	Chlorides (mg/l)		
WMW 1	6.13	485	475	71.3	
WMW 2	5.92	510	12.5	51.3	
WMW 3	6.12	850	105	26.7	
WMW 4	6.20	925	77	28.0	
WMW 5	5.77	750	208	26.0	
Surface Water	6.53	135	8.3	——	

NOTE: Sites #1 and #3 collected 7-18-89
Sites #2,4,5, and surface water collected 7-25-89

Laboratory Tribble & Richardson Chemist Kathy S. Bragg Telephone # 912 / 474 - 6100

Solid Waste Management Program - EPD
3420 Norman Berry Drive - 7th Floor
Hapeville, Georgia 30354
404/656-2836

WATER MONITORING REPORT

SOLID WASTE DISPOSAL SITES

Site Name: Southern States Landfill

Type Sample: ☐ Background ☒ Operational ☐ Other _____

Monitoring Results — Sampling Date January 24, 1989

Monitoring Station #	Analytical Results: pH	Specific Conductance (µmhos)	Chlorides (mg/l)	Depth to Groundwater -Wells Only- (ft.)	Physical Condition of Monitoring Station (Describe)
Well #1	6.1	819	67.7	65	
Well #2	6.0	756	26.1	50	
Well #3	5.4	378	203.2	30	
Well #4	5.9	990	78.2	33	
Well #5	6.4	1008	36.5	32	
Surface Water	7.51	250	36.5	NA	

Laboratory Tribble & Richardson, Inc. Chemist Kathy S. Bragg Telephone # 912 / 474-6100

GROUNDWATER MONITORING

CLIENT Southern States Landfill DATE 1-24-89 TIME _____ BY Floyd Thomas

Well Ident.	Depth to Bottom(ft)	Depth to Water(ft)	Depth of Water(ft)	Well Diameter	Volume to Purge	COMMENTS
1	180	65	115	6	NA	
2	268	50	218	6	NA	
3	58	30	28	4	56	
4	44	33	11	4	22	
5	44	32	12	4	24	
Surface						
NOTE:	VERY CLEAR DAY					

Tribble & Richardson Inc.
Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION _____

COLLECTED 1-24-89 BY T&R SAMPLE: 24 HOUR COMPOSITE

RECEIVED 1-24-89 BY T&R FLOW PROPORTIONAL, GRAB

REPORTED 3-9-89 RELEASED BY: Kathy L. Bragg

LOCATION						
ANALYSIS	UNITS	Well #1	Well #2	BY	DATE RUN	METHOD
Microtox	EC_{50}			TR	1-25	
15 Minutes	o/o	>100	>100			
		Well #3	Well #4			
Microtox	EC_{50}			TR	1-25	
15 Minutes	o/o	>100	>100			
		Well #5	Surface Water			
Microtox	EC_{50}			TR	1-25	
15 Minutes	o/o	>100	>100			

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

P.O. BOX 13147 MACON, GA 31208-0147 /OFFICE 4875 RIVERSIDE DRIVE 31210

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION _____

COLLECTED 1-24-89 BY T&R SAMPLE: 24 HOUR COMPOSITE

RECEIVED 1-24-89 BY T&R FLOW PROPORTIONAL, GRAB

REPORTED 3-9-89 RELEASED BY: Kathy S. Bragg

LOCATION						
ANALYSIS	UNITS	Well #1	Well #2	BY	DATE RUN	METHOD
Arsenic	mg/l	<0.05	<0.05	ASI	2-24	307B
Barium	mg/l	<0.25	<0.25	JK	1-31	303C
Cadmium	mg/l	<0.01	<0.01	ASI	2-24	310A
Chromium	mg/l	<.025	<.025	JK	1-31	312A
Copper	mg/l	LAB ERROR	LAB ERROR			313A
Mercury	mg/l	<0.001	<0.001	ASI	2-24	
Selenium	mg/l	<0.01	<0.01	ASI	2-24	
Silver	mg/l	<.005	<.005	JK	2-2	324A
Zinc	mg/l	.038	.028			328A

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

_____

_____

_____

_____

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION _____

COLLECTED 1-24-89 BY T&R SAMPLE: 24 HOUR COMPOSITE

RECEIVED 1-24-89 BY T&R FLOW PROPORTIONAL, GRAB

REPORTED 3-9-89 RELEASED BY: Kathy S. Bragg

LOCATION						
ANALYSIS	UNITS	Well #3	Well #4	BY	DATE RUN	METHOD
Arsenic	mg/l	<0.05	<0.05	ASI	2-24	307B
Barium	mg/l	<0.25	<0.25	ASI	2-24	303C
Cadmium	mg/l	<0.01	<0.01	ASI	2-24	310A
Chromium	mg/l	<.025	<.025	JK	3-31	312A
Copper	mg/l	LAB ERROR	LAB ERROR			313A
Mercury	mg/l	<.001	<.001	ASI	2-24	
Selenium	mg/l	<0.01	<0.01	ASI	2-24	
Silver	mg/l	<.005	<.005	JK	2-2	324A
Zinc	mg/l	.030	.023	JK	1-26	328A

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

Southern States La· 'fill
Collected 1-24-89
Well #3

Tribble and Richardson

Report No. 14255-4

RESULTS

Volatile Compounds (Method 624-GC/MS)

		Detection Limit (ppb)
Acrolein	ND	10
Acrylonitrile	ND	10
Benzene	ND	10
Carbon Tetrachloride	ND	10
Chlorobenzene	ND	10
1,2-Dichloroethane	ND	10
1,1,1-Trichloroethane	ND	10
1,1-Dichloroethane	ND	10
1,1,2-Trichloroethane	ND	10
1,1,2,2-Tetrachloroethane	ND	10
Chloroethane	ND	10
Chloroform (Trichloromethane)	ND	10
1,1-Dichloroethylene	ND	10
1,2-Trans-Dichloroethylene	ND	10
1,2-Dichloropropane	ND	10
1,2-Dichloropropylene (1,3-Dichloropropene)	ND	10
Ethylbenzene	ND	10
Methylene Chloride (Dichloromethane)	ND	10
Methyl Chloride (Chloromethane)	ND	10
Methyl Bromide (Bromomethane)	ND	10
Bromoform (Tribromomethane)	ND	10
Dichlorobromomethane	ND	10
Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10
Chlorodibromomethane	ND	10
Tetrachloroethylene	ND	10
Toluene	ND	10
Trichloroethylene	ND	10
Vinyl Chloride (Chloroethylene)	ND	10
Xylenes	ND	10

ND = None Detected

Respectfully submitted,

By: J. Denise Sandl

3-27500

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION _____

COLLECTED 1-24-89 BY T&R SAMPLE: 24 HOUR COMPOSITE

RECEIVED 1-24-89 BY T&R FLOW PROPORTIONAL GRAB

REPORTED 3-9-89 RELEASED BY: Kathy D. Briggs

LOCATION						
ANALYSIS	UNITS	Well #5	Surface Water	BY	DATE RUN	METHOD
Arsenic	mg/l	<0.05	<0.05	ASI	2-24	307B
Barium	mg/l	<.25	<.25	JK	1-31	303C
Cadmium	mg/l	<0.01	<0.01	ASI	2-24	310A
Chromium	mg/l	<.025	<.025	ASI	1-31	312A
Copper	mg/l	LAB ERROR	LAB ERROR			313A
Mercury	mg/l	<.001	<.001	ASI	2-24	
Selenium	mg/l	<.01	<.01	ASI	2-24	
Silver	mg/l	<.005	<.005	JK	2-2	324A
Zinc	mg/l	.033	.029	JK	1-26	328A

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

P.O. BOX 13147 MACON, GA. 31208-0147 / OFFICE 4875 RIVERSIDE DRIVE 31210

Southern States Landfill
Collected 1-24-89
Well #5

Tribble and Richardson

Report No. 14255-6

RESULTS

Volatile Compounds (Method 624-GC/MS)

		Detection Limit (ppb)
Acrolein	ND	10
Acrylonitrile	ND	10
Benzene	ND	10
Carbon Tetrachloride	ND	10
Chlorobenzene	ND	10
1,2-Dichloroethane	ND	10
1,1,1-Trichloroethane	ND	10
1,1-Dichloroethane	ND	10
1,1,2-Trichloroethane	ND	10
1,1,2,2-Tetrachloroethane	ND	10
Chloroethane	ND	10
Chloroform (Trichloromethane)	ND	10
1,1-Dichloroethylene	ND	10
1,2-Trans-Dichloroethylene	ND	10
1,2-Dichloropropane	ND	10
1,2-Dichloropropylene (1,3-Dichloropropene)	ND	10
Ethylbenzene	ND	10
Methylene Chloride (Dichloromethane)	ND	10
Methyl Chloride (Chloromethane)	ND	10
Methyl Bromide (Bromomethane)	ND	10
Bromoform (Tribromomethane)	ND	10
Dichlorobromomethane	ND	10
Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10
Chlorodibromomethane	ND	10
Tetrachloroethylene	ND	10
Toluene	ND	10
Trichloroethylene	ND	10
Vinyl Chloride (Chloroethylene)	ND	10
Xylenes	ND	10

ND = None Detected

Respectfully submitted,

By: F. Denise Arnold

3-27500

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

September 29, 1988

MEMORANDUM

TO: Otis Woods

THROUGH: James W. Dunbar

Harold C. Gillespie

FROM: Lael Butler

SUBJECT: October-December 1988 Sampling Schedule (Projected)

The following are sampling events projected to occur during October-December 1988 and are subject to change:

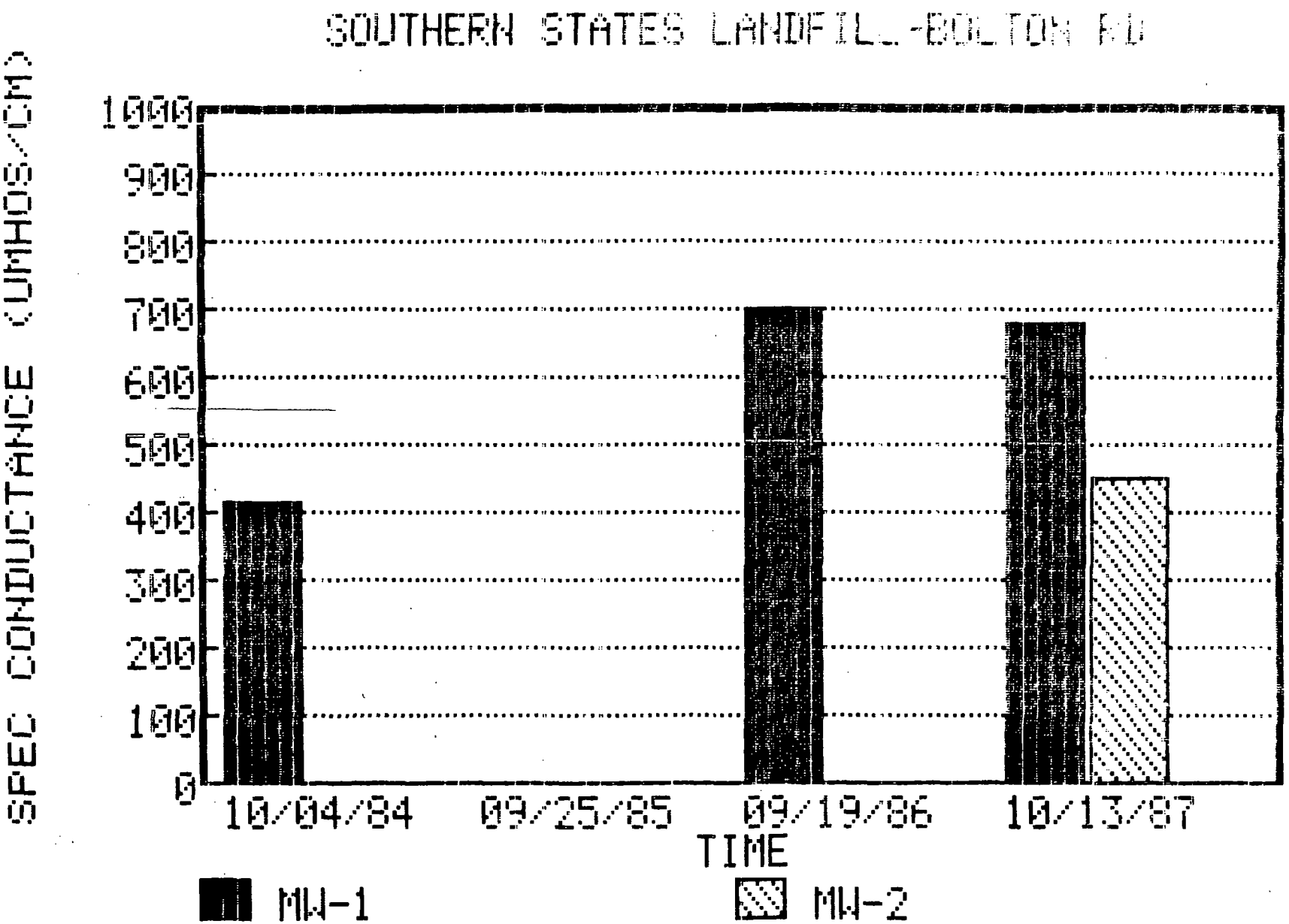
Facility	# Samples	Date
Two private wells near Clarke County-Dunlap Road SL	4	10/11/88
Rockdale Co. - Miller Bottom Road SL	5	10/19/88
Fulton County - Southern States Bolton Road SL	4	11/7/88

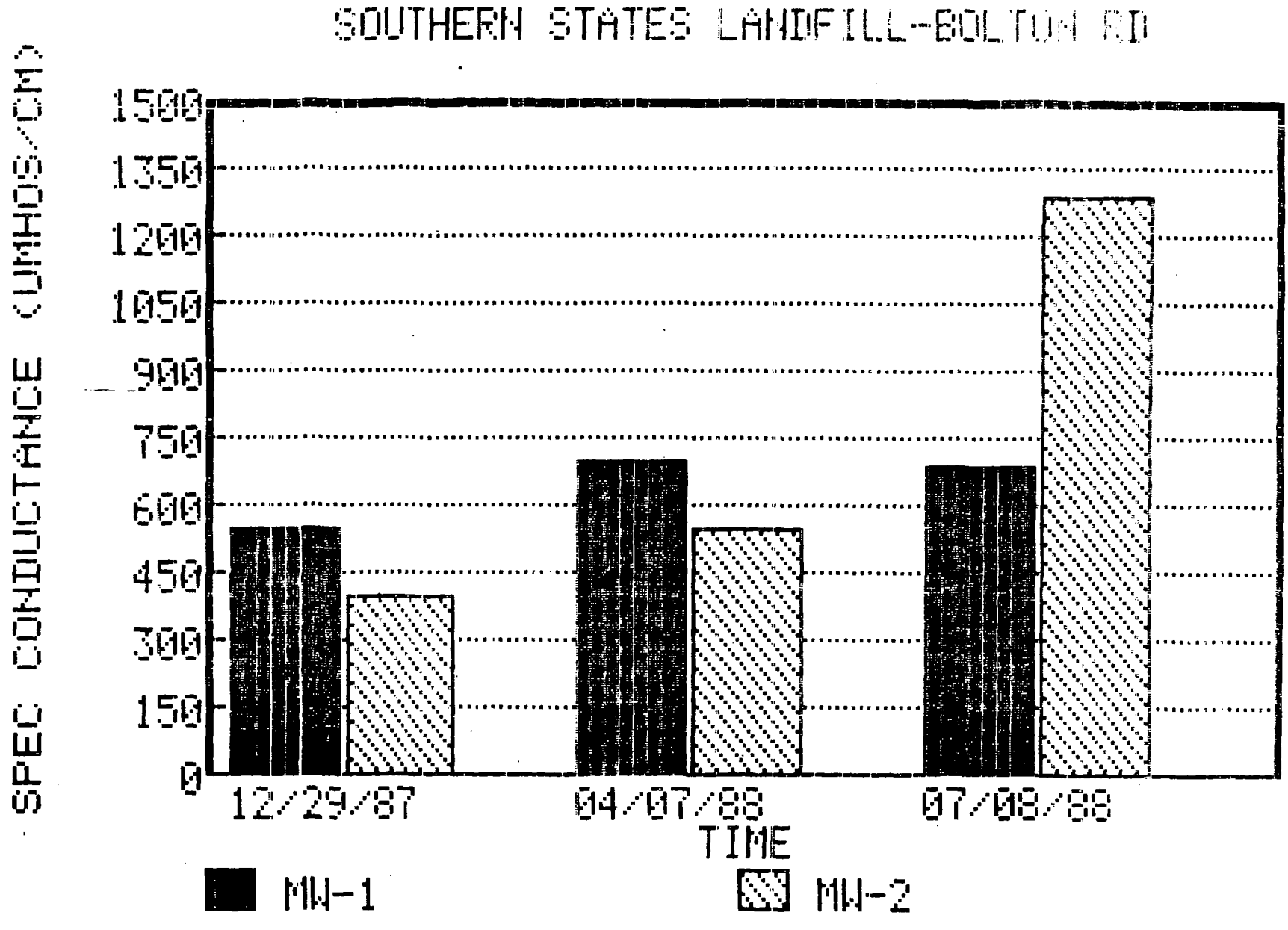
The analyses to be requested for each sampling event are drinking water metals, volatile organics, (for Clarke County sampling, 4 specific volatiles have been requested), pH, specific conductance, and chlorides.

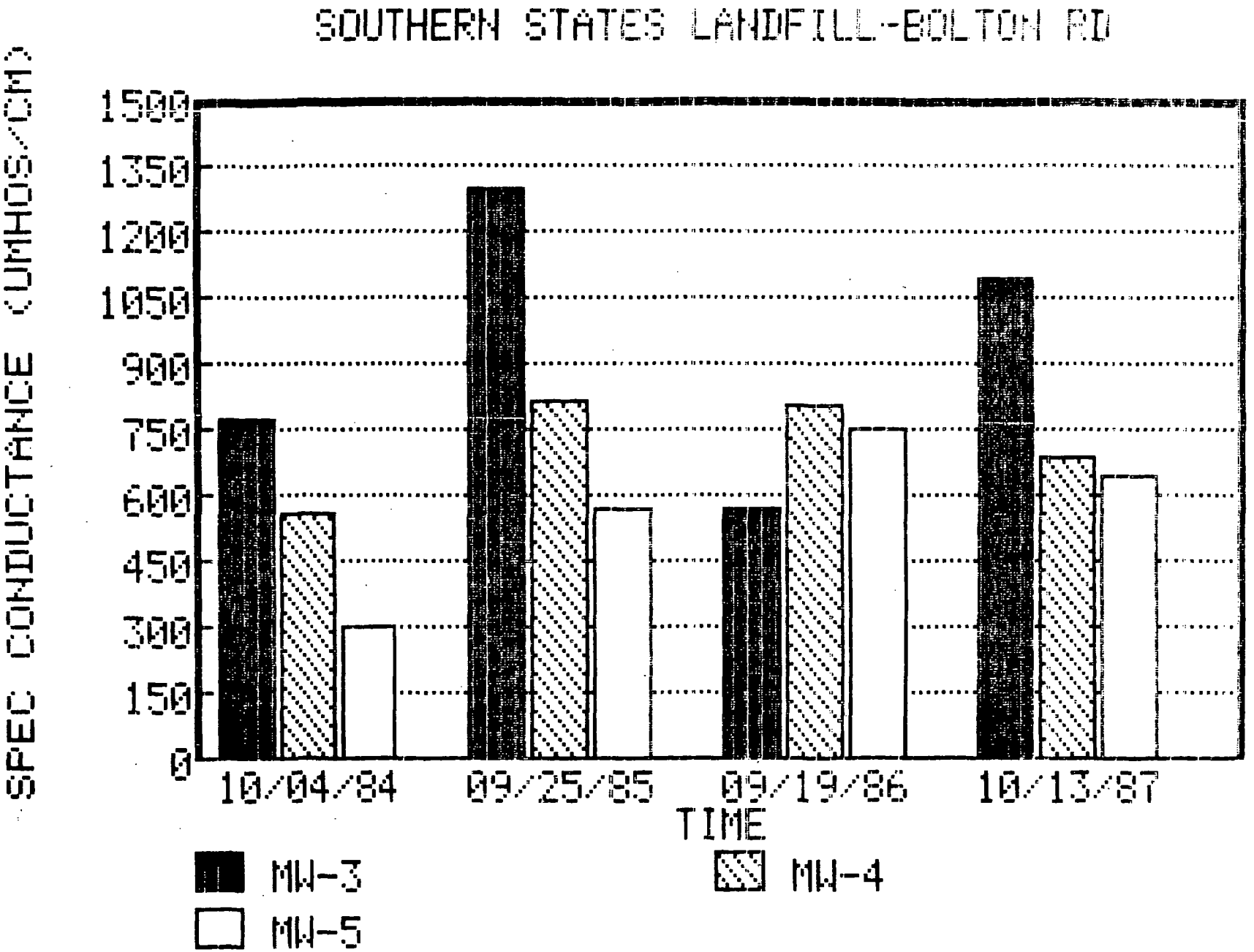
The appropriate laboratory request forms (excluding Clarke County, which has been previously forwarded to the laboratory) are attached.

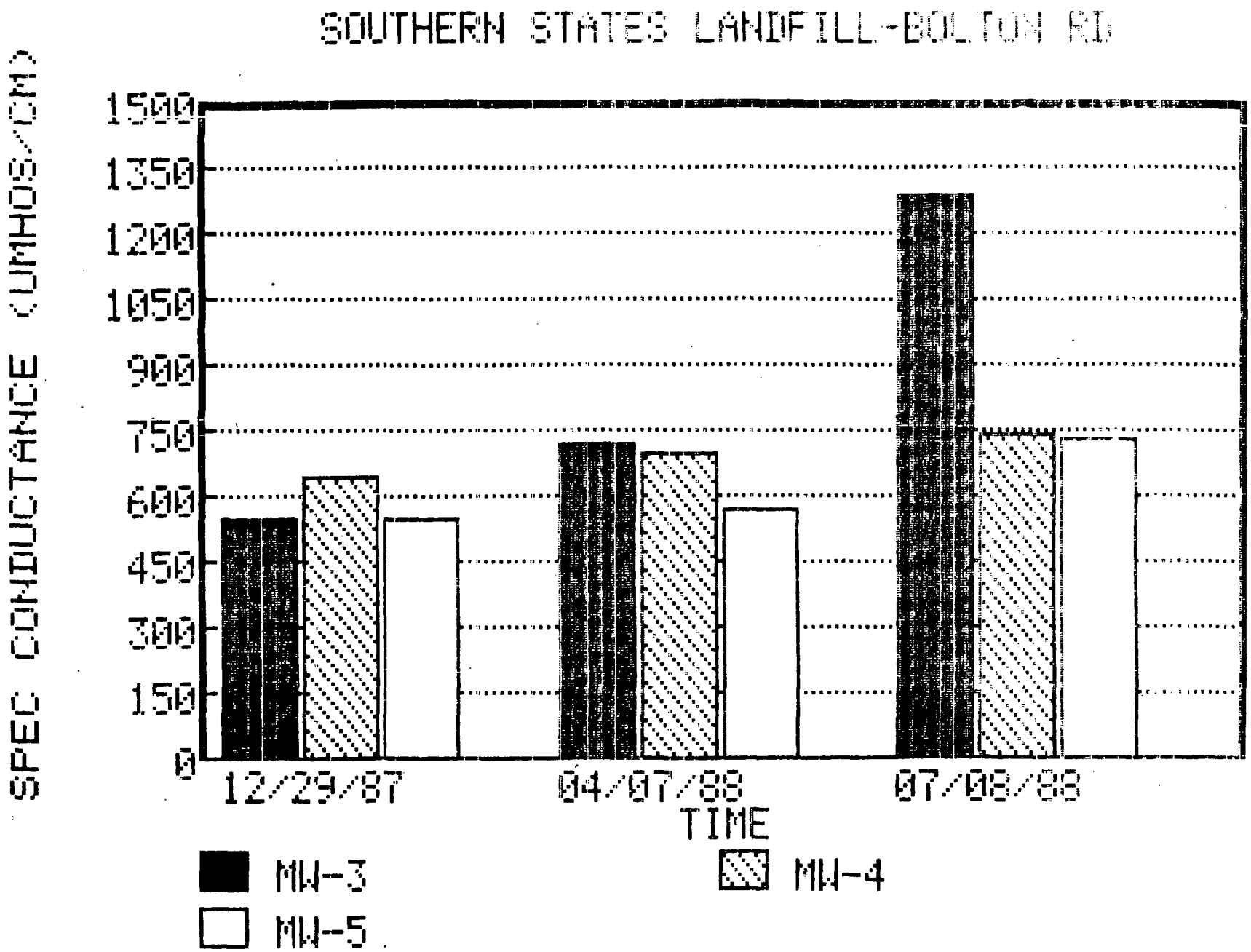
Should there be any questions or comments, please advise.

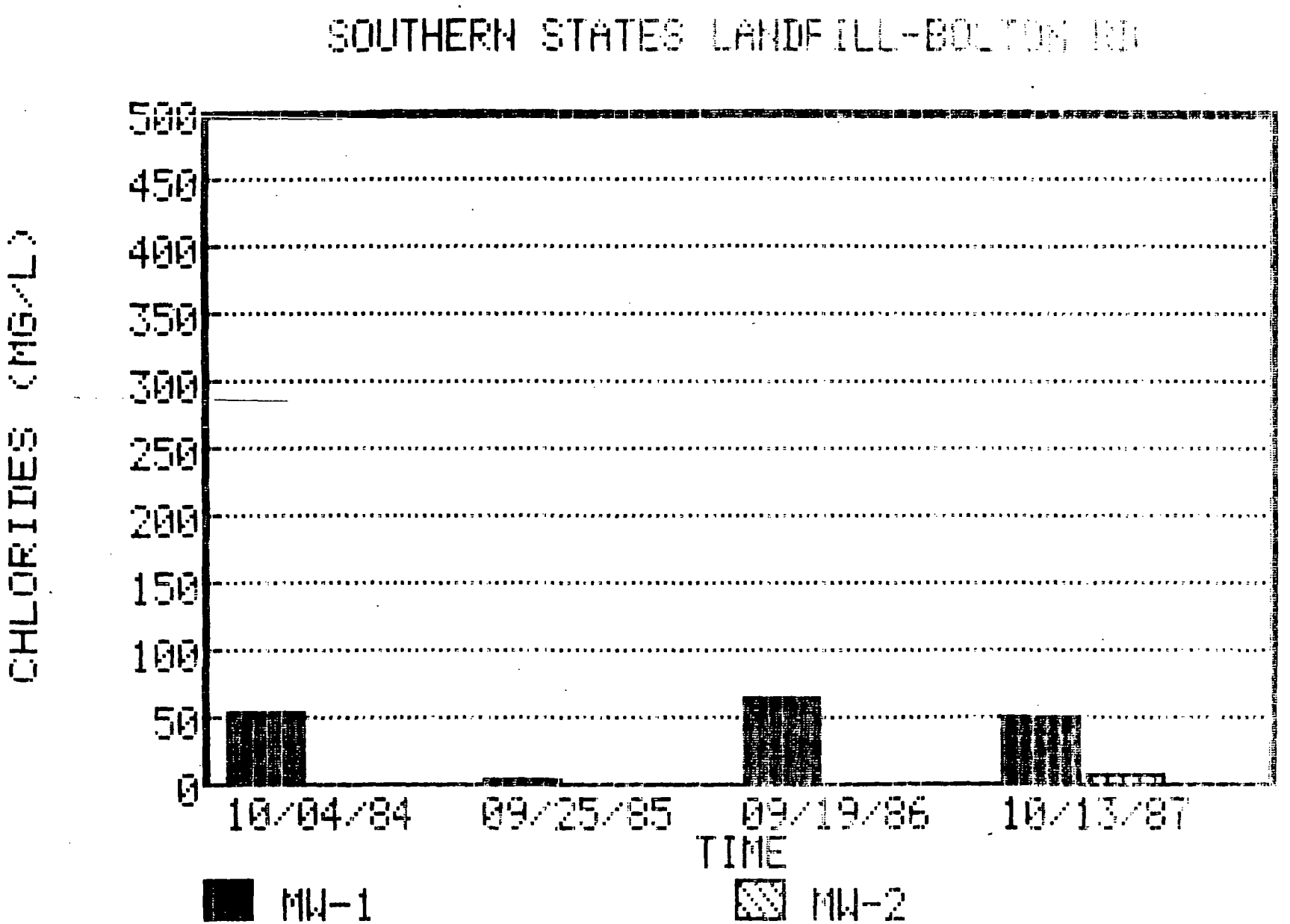
LHB:sf
Attachments

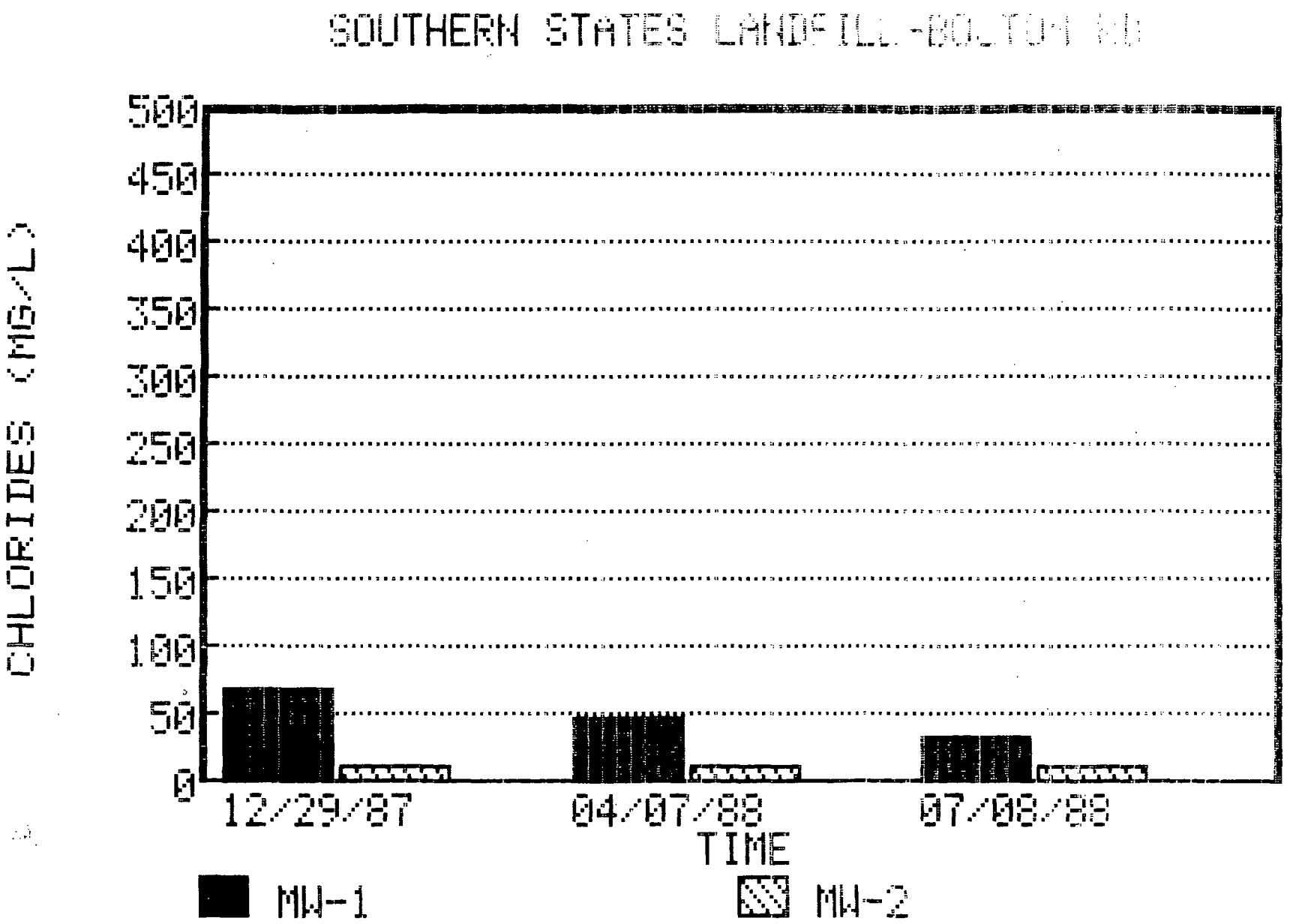

SOUTHERN STATES LANDFILL-BOLTON MS
SPEC CONDUCTANCE (UMHOS/CM)
1000
900
800
700
600
500
400
300
200
100
0
10/04/84
09/25/85
09/19/86
10/13/87
TIME
MW-1
MW-2

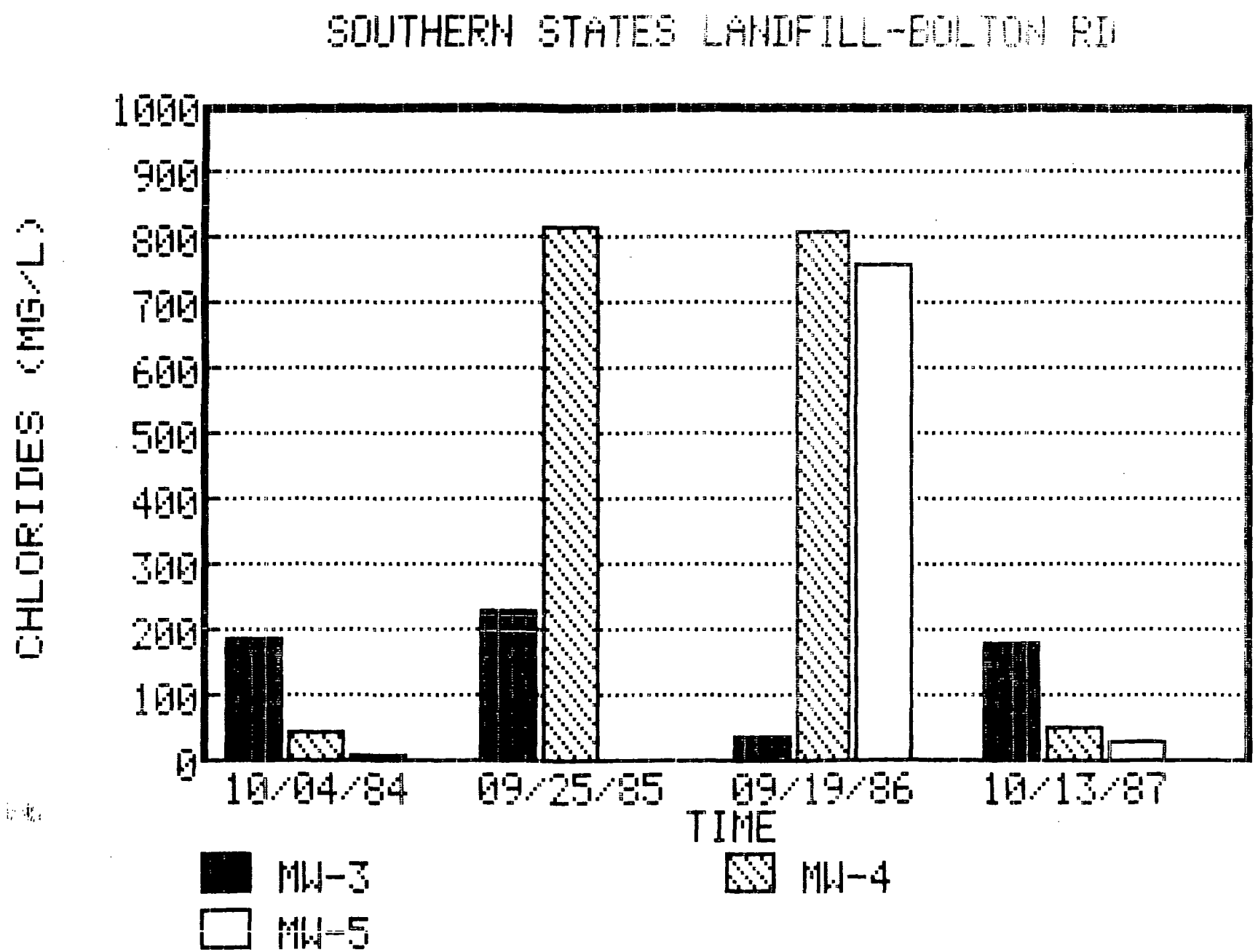

SOUTHERN STATES LANDFILL-BOLTON RD
SPEC CONDUCTANCE (UMHOS/CM)
1500
1350
1200
1050
900
750
600
450
300
150
0
12/29/87
04/07/88
07/08/88
TIME
MW-1
MW-2

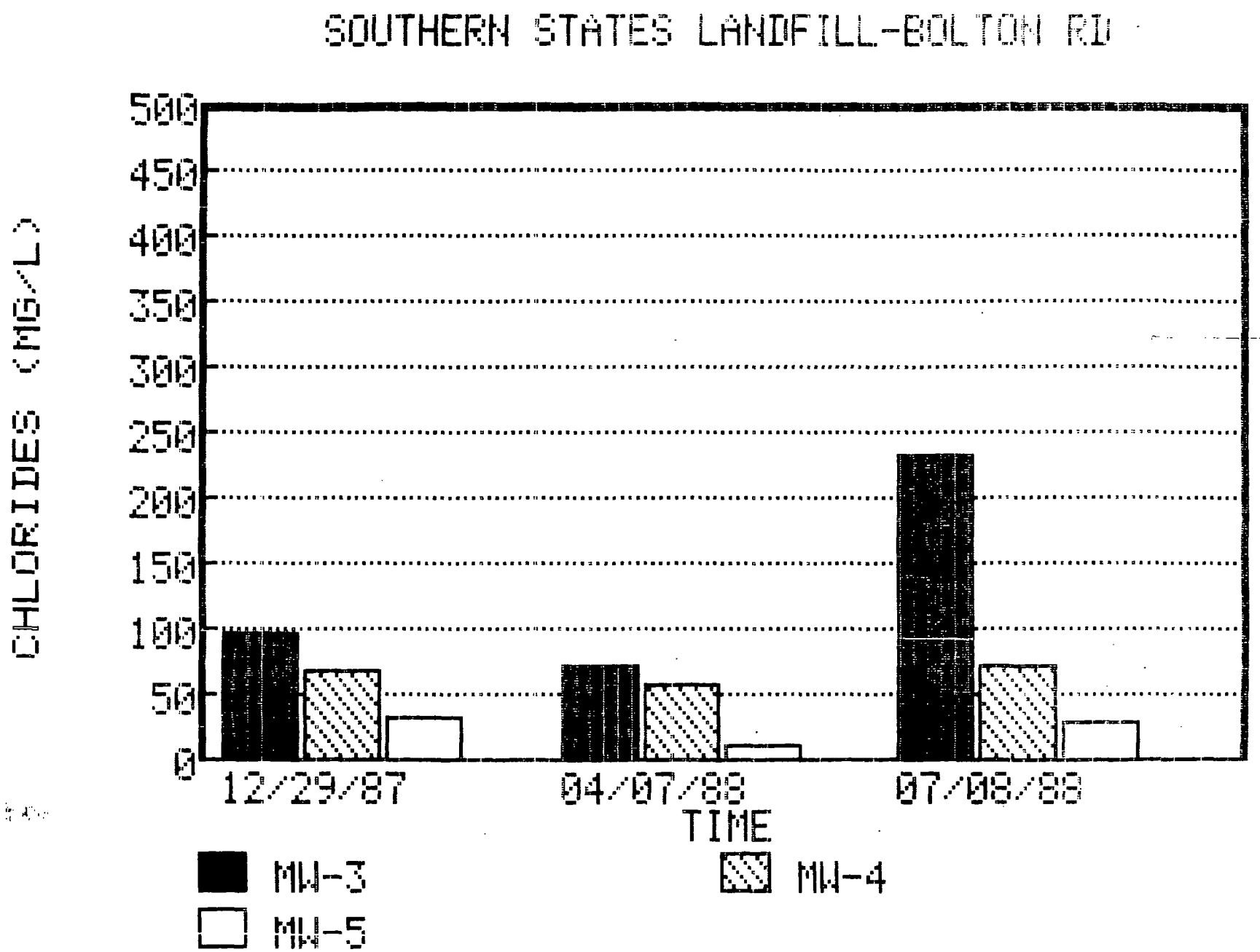

SOUTHERN STATES LANDFILL-BOLTON RD
SPEC CONDUCTANCE (UMHOS/CM)
1500
1350
1200
1050
900
750
600
450
300
150
0
10/04/84
09/25/85
09/19/86
10/13/87
TIME
MW-3
MW-4
MW-5

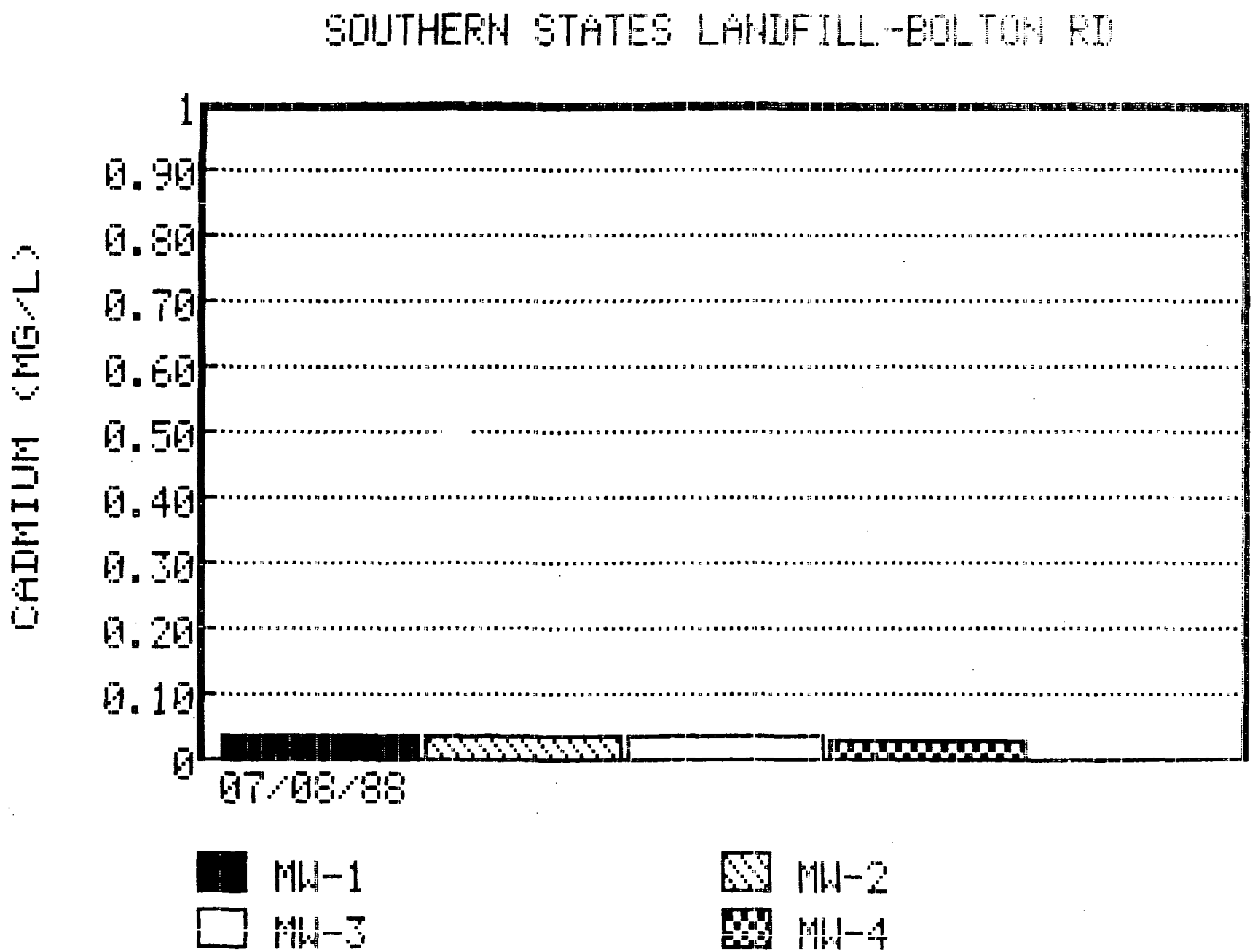

SOUTHERN STATES LANDFILL-BOLTON RD
SPEC CONDUCTANCE (UMHOS/CM)
1500
1350
1200
1050
900
750
600
450
300
150
0
12/29/87
04/07/88
07/08/88
TIME
MW-3
MW-4
MW-5

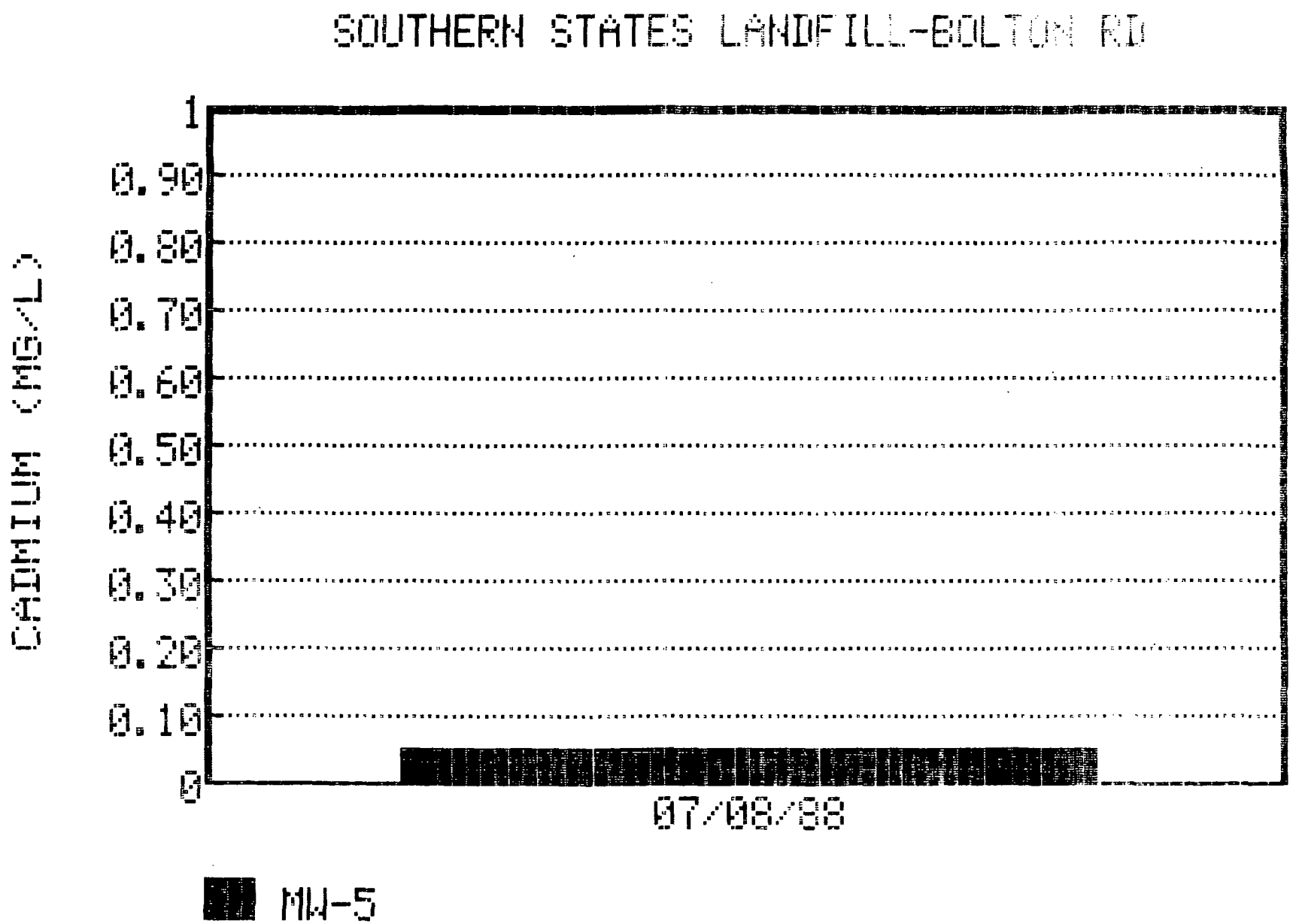

SOUTHERN STATES LANDFILL-BOLTON, NC
CHLORIDES (MG/L)
500
450
400
350
300
250
200
150
100
50
0
10/04/84
09/25/85
09/19/86
10/13/87
TIME
MW-1
MW-2

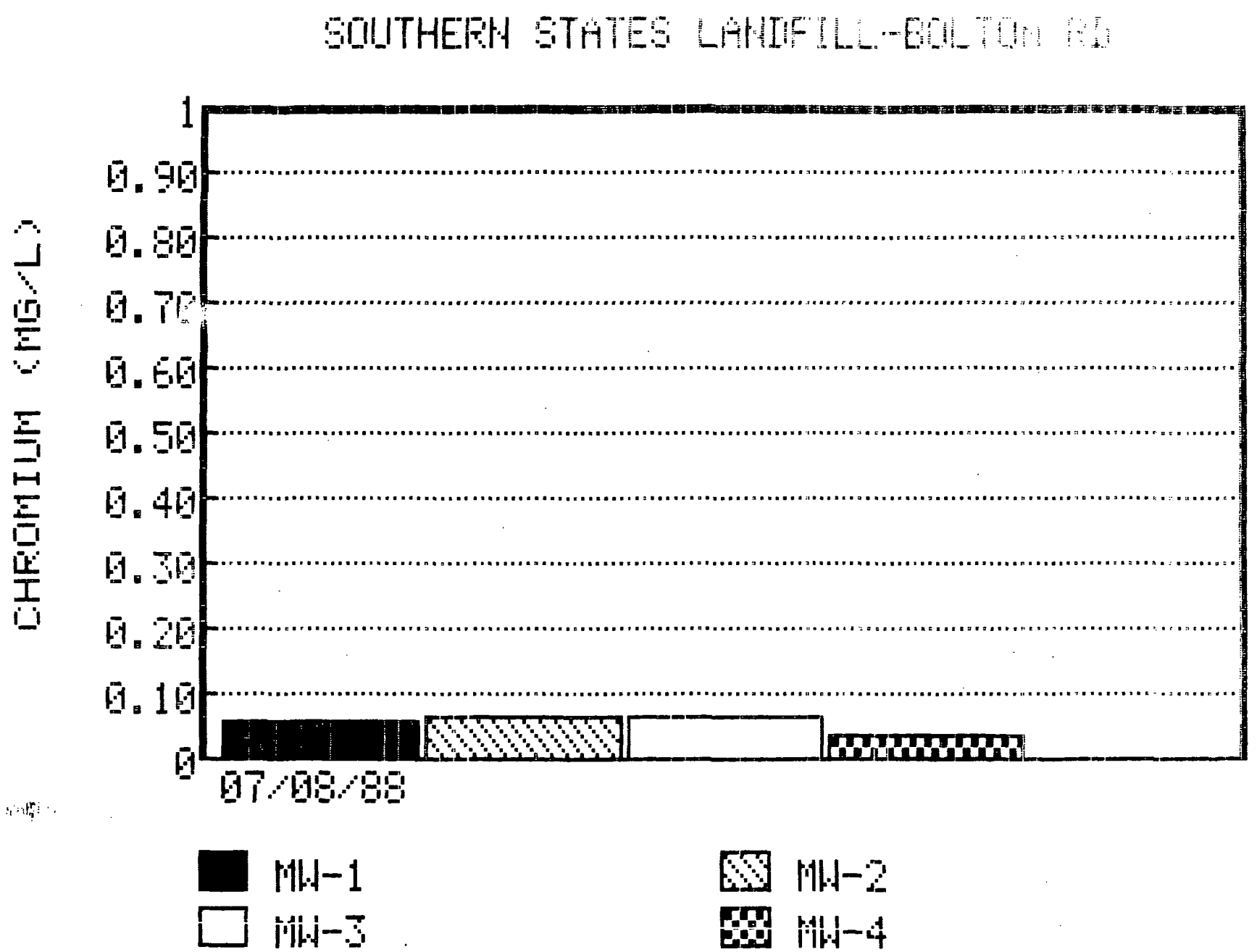

SOUTHERN STATES LANDFILL-BOLTON MS
CHLORIDES (MG/L)
500
450
400
350
300
250
200
150
100
50
0
12/29/87
04/07/88
07/08/88
TIME
MW-1
MW-2


SOUTHERN STATES LANDFILL-BOLTON RD
CHLORIDES (MG/L)
1000
900
800
700
600
500
400
300
200
100
0
10/04/84
09/25/85
09/19/86
10/13/87
TIME
MW-3
MW-4
MW-5


SOUTHERN STATES LANDFILL-BOLTON RD
CHLORIDES (MG/L)
500
450
400
350
300
250
200
150
100
50
0
12/29/87
04/07/88
07/08/88
TIME
MW-3
MW-4
MW-5


SOUTHERN STATES LANDFILL-BOLTON RD
CADMIUM (MG/L)
1
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0
07/08/88
MW-1
MW-2
MW-3
MW-4


SOUTHERN STATES LANDFILL-BOLTON RD
CADMIUM (MG/L)
1
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0
07/08/88
MW-5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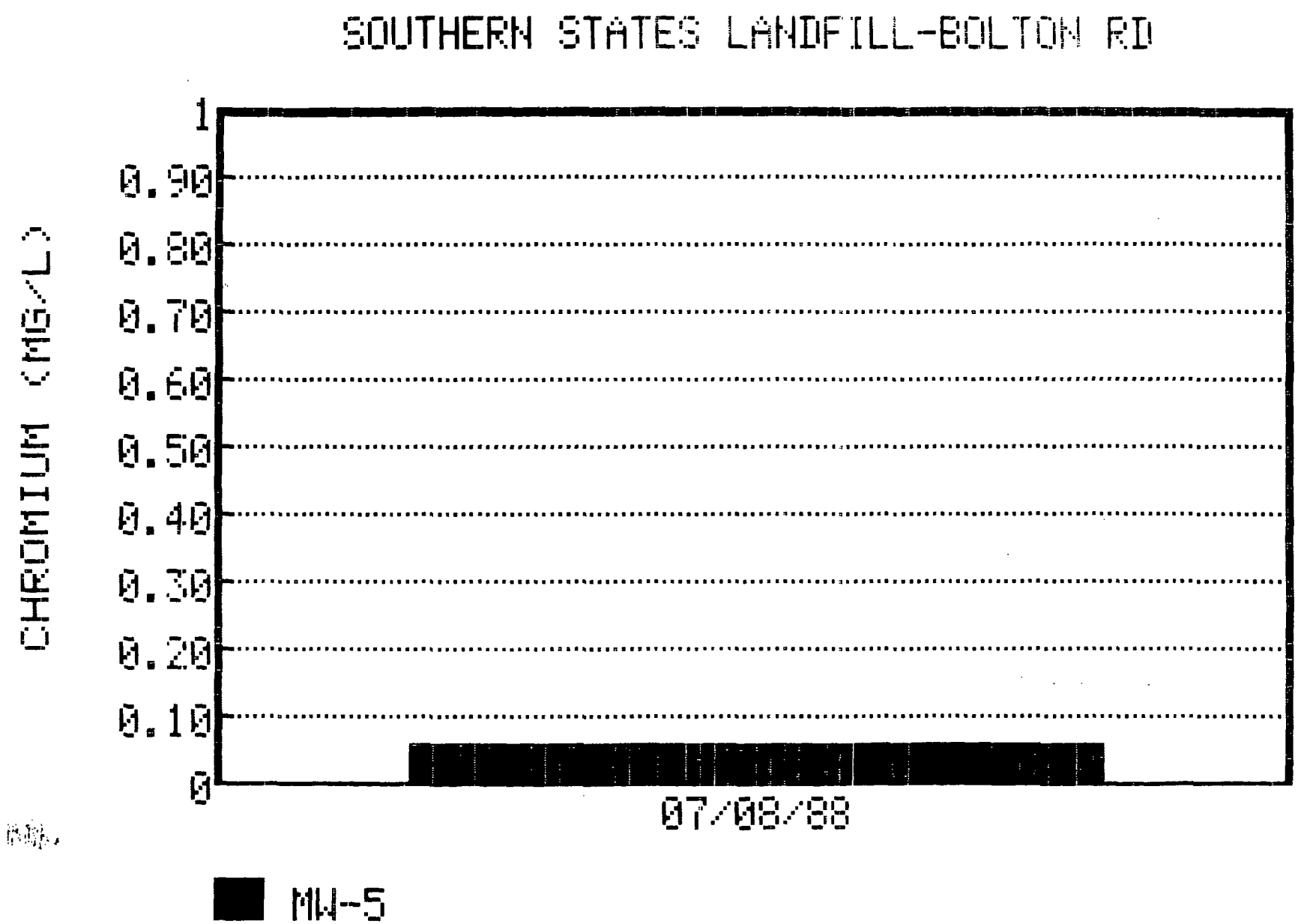
CHROMIUM (MG/L)
1
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0
07/08/88
MW-1
MW-2
MW-3
MW-4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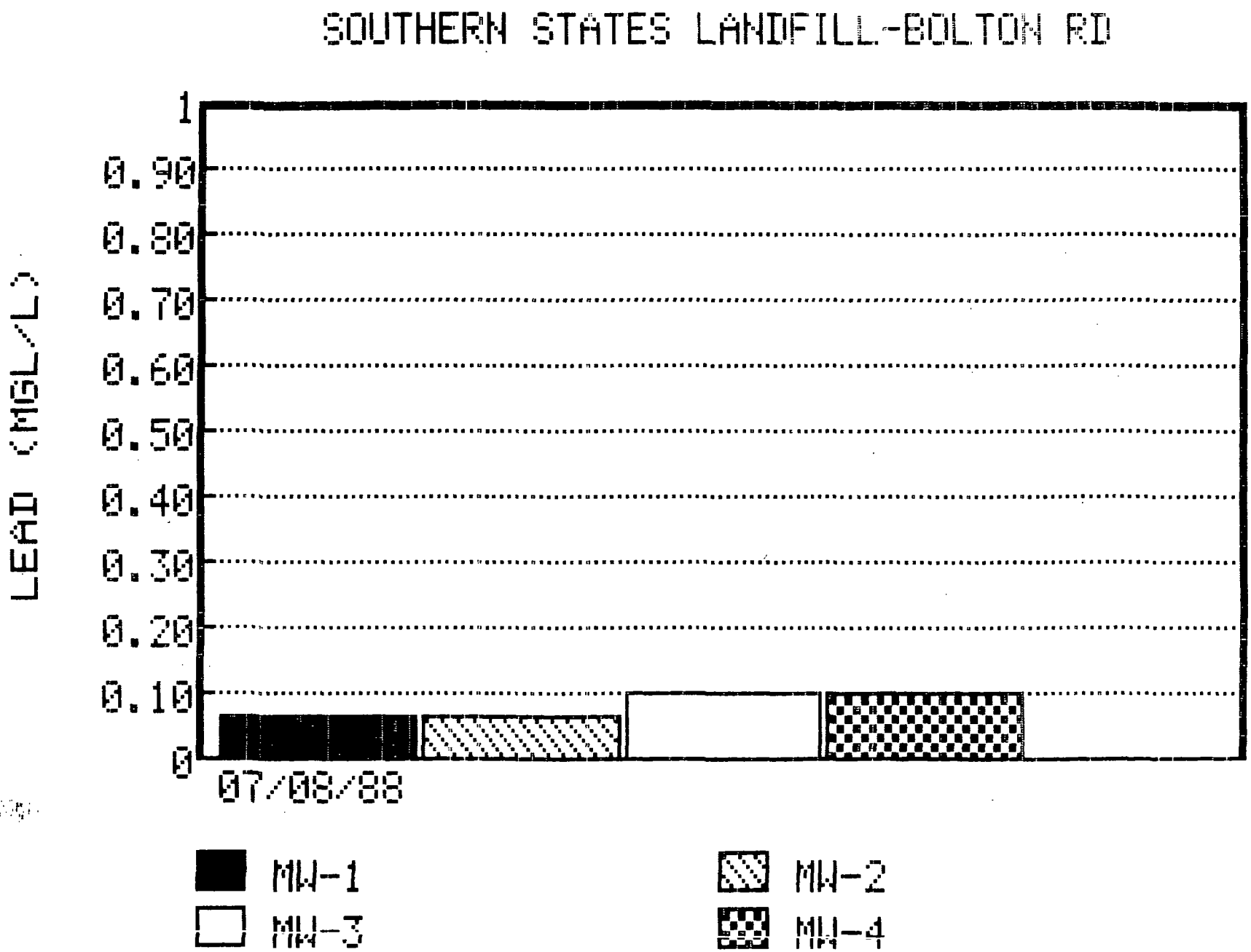
CHROMIUM (MG/L)
1
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0
07/08/88
MW-5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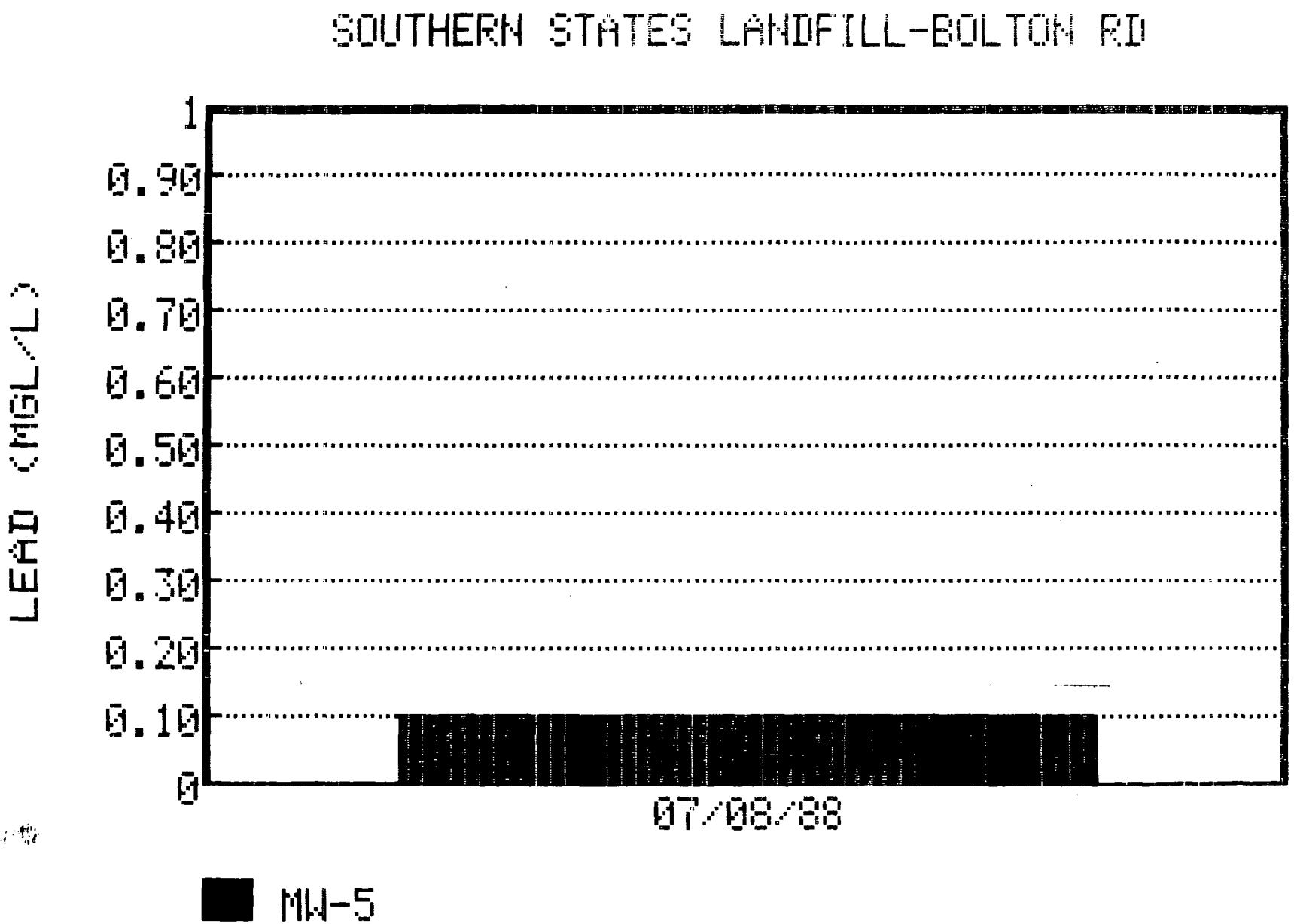
LEAD (MG/L)
1
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0
07/08/88
MW-1
MW-2
MW-3
MW-4


SOUTHERN STATES LANDFILL-BOLTON RD
LEAD (MG/L)
1
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0
07/08/88
MW-5

Municipal Solid Waste Control Program - EPD
3420 Norman Berry Drive - 7th Floor
Hapeville, Georgia 30354
404/656-2836

WATER MONITORING REPORT

SOLID WASTE DISPOSAL SITES

Site Name: Southern States Landfill-Bolton Road Site

Type Sample: ☐ Background ☒ Operational ☐ Other _____

Monitoring Results

Sampling Date July 8, 1988

Monitoring Station #	Analytical Results			Depth to Groundwater -Wells Only- (ft.)	Physical Condition of Monitoring Station (Describe)
	pH	Specific Conductance (µmhos)	Chlorides (mg/l)		
WELL #1	6.4	686	33	76	
WELL #2	7.37	530	12.2	59	
WELL #3	6.32	1293	235	28	
WELL #4	6.24	742	73	29	
WELL #5	6.3	731	50	29	

Laboratory TRIBBLE & RICHARDSON, INC. Chemist Kathy S. Bragg Telephone # 912 / 474-6100

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION Kim Barrett

COLLECTED 7-8-88 BY BL SAMPLE: 24 HOUR COMPOSITE

RECEIVED 7-8-88 BY BL FLOW PROPORTIONAL, GRAB

REPORTED 7-27-88 RELEASED BY: Kathy S. Bragg

LOCATION						
ANALYSIS	UNITS	Well #1	Well #2	BY	DATE RUN	METHOD
Conductance	*	686	530	LP	7-11	205
Chlorides	mg/l	33	12.2	LP	7-12	407A
pH	Units	6.4	7.37	LP	7-11	423
Micro-Tox(a) 15 min	%LL	0	9	DS	7-13	
Arsenic	mg/l	<0.004	<0.004	SE	8-12	307B
Barium	mg/l	.40	.65	LP	7-13	303C
Cadmium	mg/l	.04	.04	LP	7-13	310A
Chromium	mg/l	.06	.07	LP	7-12	312A
Copper	mg/l	.04	.02	LP	7-12	313A
Lead	mg/l	.067	.067	LP	7-18	316A
Mercury	mg/l	<0.0005	<0.0005	SE	8-12	320A&B
Selenium	mg/l	<0.004	<0.004	SE	8-12	423
Silver	mg/l	.005	.015	LP	7-18	324A
Zinc	mg/l	.025	.023	LP	7-18	328A

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

*umhos/cm

(a) Compared to non-toxic standard

P.O. BOX 13147 MACON, GA. 31208-0147/OFFICE 4875 RIVERSIDE DRIVE 31210

Tribble & Richardson Inc.
Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION Kim Barrett

COLLECTED 7-8-88 BY BL SAMPLE: 24 HOUR COMPOSITE

RECEIVED 7-8-88 BY BL FLOW PROPORTIONAL, GRAB

REPORTED 7-27-88 RELEASED BY: Kathy S. Bragg

LOCATION						
ANALYSIS	UNITS	Well #3	Well #4	BY	DATE RUN	METHOD
Conductance	*	1293	742	TR	7-11	205
Chlorides	mg/l	235	73	LP	7-12	407A
pH	Units	6.32	6.24	LP	7-11	423
Micro-Tox	%LL	4	9	DS	7-13	
Arsenic	mg/l	<0.004	<0.004	SE	8-12	307B
Barium	mg/l	.35	.40	LP	7-13	303C
Cadmium	mg/l	.04	.03	LP	7-13	310A
Chromium	mg/l	.07	.04	LP	7-12	312A
Copper	mg/l	.02	.03	LP	7-12	313A
Lead	mg/l	.10	.10	LP	7-18	316A
Mercury	mg/l	<0.0005	<0.0005	SE	8-12	320A&B
Selenium	mg/l	<0.004	<0.004	SE	8-12	423
Silver	mg/l	.010	.010	LP	7-18	324A
Zinc	mg/l	.029	.033	LP	7-11	328A

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

*umhos/cm

Tribble & Richardson Inc.
Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION Kim Barrett

COLLECTED 7-8-88 BY BL SAMPLE: 24 HOUR COMPOSITE

RECEIVED 7-8-88 BY BL FLOW PROPORTIONAL, GRAB

REPORTED 7-27-88 RELEASED BY: Kathy S. Braggy

LOCATION						
ANALYSIS	UNITS	Well #5		BY	DATE RUN	METHOD
Conductance	*	731		TR	7-11	205
Chlorides	mg/l	50		LP	7-12	407A
pH	Units	6.3		LP	7-11	423
Micro-Tox	%LL	25		DS	7-13	
Arsenic	mg/l	<0.004		SE	8-12	307B
Barium	mg/l	.35		LP	7-13	303C
Cadmium	mg/l	.05		Lp	7-13	310A
Chromium	mg/l	.06		LP	7-12	312A
Copper	mg/l	.02		LP	7-12	313A
Lead	mg/l	.10		LP	7-18	316A
Mercury	mg/l	<0.0005		SE	8-12	320A&B
Selenium	mg/l	<0.004		SE	8-12	423
Silver	mg/l	.010		LP	7-18	324A
Zinc	mg/l	.027		LP	7-11	328A

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

*umhos/cm

P.O. BOX 13147 MACON, GA. 31208-0147/OFFICE 4875 RIVERSIDE DRIVE 31210

Southeast Laboratories Inc. 1490 Mecaslin St. N.W. Atlanta Ga 30309 (404) 873-1896 [illegible]

- SINCE 1971

July 19, 1988

LABORATORY REPORT

Tribble & Richardson, Inc.
P. O. Box 13147
Macon, Georgia 31208-3147

REPORT NO. 29030-1

ATTN: Kathy S. Bragg

SAMPLE MARKING: Sample TR 253, Received 7-12-88.

TEST PROCEDURE: EPA METHOD 601 AND 602 AS SET FORTH IN TEST METHODS FOR ORGANIC CHEMICAL ANALYSIS OF MUNICIPAL AND INDUSTRIAL WASTE EPA 600/4-82-027 JULY 1982.

RESULTS

WELL #1	MICROGRAM/LITER (PPB)		MICROGRAM/LITER (PPB)
BROMODICHLOROMETHANE	<0.1	METHYLENE CHLORIDE	1.9
BROMOFORM	<0.1	TETRACHLOROETHENE	<0.1
BROMOMETHANE	<0.1	1,1,1-TRICHLOROETHANE	<0.1
CARBON TETRACHLORIDE	<0.1	1,1,2-TRICHLOROETHANE	<0.1
CHLOROBENZENE	<0.1	TRICHLOROETHENE	<0.1
CHLOROETHANE	<0.1	TRICHLOROFLUOROMETHANE	<0.1
2-CHLOROETHYLVINYL ETHER	<0.1	VINYL CHLORIDE	<0.1
CHLOROFORM	<0.1		
CHLOROMETHANE	<0.1	BENZENE	<1.0
DIBROMOCHLOROMETHANE	<0.1	TOLUENE	<1.0
1,2-DICHLOROBENZENE	<0.1	ETHYLBENZENE	<1.0
1,3-DICHLOROBENZENE	<0.1	XYLENES	<1.0
1,4-DICHLOROBENZENE	<0.1		
DICHLORODIFLUOROMETHANE	<0.1		
1,1-DICHLOROETHANE	<0.1		
1,2-DICHLOROETHANE	<0.1		
1,1-DICHLOROETHENE	<0.1		
T-1,2-DICHLOROETHENE	<0.1		
1,2-DICHLOROPROPANE	<0.1		
C-1,3-DICHLOROPROPENE	<0.1		
T-1,3-DICHLOROPROPENE	<0.1		
1,1,2,2-TETRACHLOROETHANE	<0.1		

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

Randy Brown

RANDY BROWN

RB:DB

Southeast Laboratories Inc. - SINCE 1971
1490 Metcalf St. N.W. Atlanta Ga 30309 (404) 873-8964

July 19, 1988

LABORATORY REPORT

Tribble & Richardson, Inc.
P. O. Box 13147
Macon, Georgia 31208-3147

REPORT NO. 29030-2

ATTN: Kathy S. Bragg

SAMPLE MARKING: Sample TR 254, Received 7-12-88.

TEST PROCEDURE: EPA METHOD 601 AND 602 AS SET FORTH IN TEST METHODS FOR ORGANIC CHEMICAL ANALYSIS OF MUNICIPAL AND INDUSTRIAL WASTE EPA 600/4-82-027 JULY 1982.

RESULTS

WELL #2

	MICROGRAM/LITER (PPB)		MICROGRAM/LITER (PPB)
BROMODICHLOROMETHANE	<0.1	METHYLENE CHLORIDE	4.9
BROMOFORM	<0.1	TETRACHLOROETHENE	3.8
BROMOMETHANE	<0.1	1,1,1-TRICHLOROETHANE	3.3
CARBON TETRACHLORIDE	<0.1	1,1,2-TRICHLOROETHANE	<0.1
CHLOROBENZENE	<0.1	TRICHLOROETHENE	0.7
CHLOROETHANE	<0.1	TRICHLOROFLUOROMETHANE	<0.1
2-CHLOROETHYLVINYL ETHER	<0.1	VINYL CHLORIDE	98.9
CHLOROFORM	0.6		
CHLOROMETHANE	15.8	BENZENE	<1.0
DIBROMOCHLOROMETHANE	<0.1	TOLUENE	<1.0
1,2-DICHLOROBENZENE	<0.1	ETHYLBENZENE	<1.0
1,3-DICHLOROBENZENE	<0.1	XYLENES	<1.0
1,4-DICHLOROBENZENE	<0.1		
DICHLORODIFLUOROMETHANE	<0.1		
1,1-DICHLOROETHANE	4.6		
1,2-DICHLOROETHANE	<0.1		
1,1-DICHLOROETHENE	14.5		
T-1,2-DICHLOROETHENE	0.6		
1,2-DICHLOROPROPANE	<0.1		
C-1,3-DICHLOROPROPENE	<0.1		
T-1,3-DICHLOROPROPENE	<0.1		
1,1,2,2-TETRACHLOROETHANE	<0.1		

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

Randy Brown

RANDY BROWN

RB:DB

Southeast Laboratories Inc. - SINCE 1971
1490 Mecaslin St N W Atlanta Ga 30309 (404) 873 [illegible]

July 19, 1988

LABORATORY REPORT

Tribble & Richardson, Inc.
P. O. Box 13147
Macon, Georgia 31208-3147

REPORT NO. 29030-3

ATTN: Kathy S. Bragg

SAMPLE MARKING: Sample TR 255, Received 7-12-88.

TEST PROCEDURE: EPA METHOD 601 AND 602 AS SET FORTH IN TEST METHODS FOR ORGANIC CHEMICAL ANALYSIS OF MUNICIPAL AND INDUSTRIAL WASTE EPA 600/4-82-027 JULY 1982.

RESULTS

WELL #3

	MICROGRAM/LITER (PPB)
BROMODICHLOROMETHANE	<0.1
BROMOFORM	<0.1
BROMOMETHANE	<0.1
CARBON TETRACHLORIDE	<0.1
CHLOROBENZENE	<0.1
CHLOROETHANE	<0.1
2-CHLOROETHYLVINYL ETHER	<0.1
CHLOROFORM	<0.1
CHLOROMETHANE	<0.1
DIBROMOCHLOROMETHANE	<0.1
1,2-DICHLOROBENZENE	<0.1
1,3-DICHLOROBENZENE	<0.1
1,4-DICHLOROBENZENE	<0.1
DICHLORODIFLUOROMETHANE	<0.1
1,1-DICHLOROETHANE	<0.1
1,2-DICHLOROETHANE	<0.1
1,1-DICHLOROETHENE	<0.1
T-1,2-DICHLOROETHENE	<0.1
1,2-DICHLOROPROPANE	<0.1
C-1,3-DICHLOROPROPENE	<0.1
T-1,3-DICHLOROPROPENE	<0.1
1,1,2,2-TETRACHLOROETHANE	<0.1

	MICROGRAM/LITER (PPB)
METHYLENE CHLORIDE	4.0
TETRACHLOROETHENE	<0.1
1,1,1-TRICHLOROETHANE	<0.1
1,1,2-TRICHLOROETHANE	<0.1
TRICHLOROETHENE	<0.1
TRICHLOROFLUOROMETHANE	<0.1
VINYL CHLORIDE	<0.1
BENZENE	<1.0
TOLUENE	<1.0
ETHYLBENZENE	<1.0
XYLENES	<1.0

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

Randy Brown

RANDY BROWN

RB:DB

Southeast Laboratories Inc. - SINCE 1971
1490 Metcalf St. N.W. Atlanta Ga 30309 (404) 873-1696 404 8

July 19, 1988

LABORATORY REPORT

Tribble & Richardson, Inc.
P. O. Box 13147
Macon, Georgia 31208-3147

REPORT NO. 29030-4

ATTN: Kathy S. Bragg

SAMPLE MARKING: Sample TR 256, Received 7-12-88.

TEST PROCEDURE: EPA METHOD 601 AND 602 AS SET FORTH IN TEST METHODS FOR ORGANIC CHEMICAL ANALYSIS OF MUNICIPAL AND INDUSTRIAL WASTE EPA 600/4-82-027 JULY 1982.

RESULTS

WELL #4	MICROGRAM/LITER (PPB)
BROMODICHLOROMETHANE	<0.1
BROMOFORM	<0.1
BROMOMETHANE	<0.1
CARBON TETRACHLORIDE	<0.1
CHLOROBENZENE	36.6
CHLOROETHANE	<0.1
2-CHLOROETHYLVINYL ETHER	<0.1
CHLOROFORM	<0.1
CHLOROMETHANE	<0.1
DIBROMOCHLOROMETHANE	<0.1
1,2-DICHLOROBENZENE	<0.1
1,3-DICHLOROBENZENE	<0.1
1,4-DICHLOROBENZENE	<0.1
DICHLORODIFLUOROMETHANE	<0.1
1,1-DICHLOROETHANE	<0.1
1,2-DICHLOROETHANE	<0.1
1,1-DICHLOROETHENE	<0.1
T-1,2-DICHLOROETHENE	<0.1
1,2-DICHLOROPROPANE	<0.1
C-1,3-DICHLOROPROPENE	<0.1
T-1,3-DICHLOROPROPENE	<0.1
1,1,2,2-TETRACHLOROETHANE	<0.1
METHYLENE CHLORIDE	4.9
TETRACHLOROETHENE	<0.1
1,1,1-TRICHLOROETHANE	<0.1
1,1,2-TRICHLOROETHANE	<0.1
TRICHLOROETHENE	<0.1
TRICHLOROFLUOROMETHANE	<0.1
VINYL CHLORIDE	<0.1
BENZENE	<1.0
TOLUENE	<1.0
ETHYLBENZENE	<1.0
XYLENES	<1.0

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

Randy Brown

RANDY BROWN

RB:DB

Southeast Laboratories Inc. - SINCE 1971
1490 Metcalf St. N.W. Atlanta Ga 30309 (404) 873-8906 404 8

July 19, 1988

LABORATORY REPORT

Tribble & Richardson, Inc.
P. O. Box 13147
Maocn, Georgia 31208-3147.

REPORT NO. 29030-5

ATTN: Kathy S. Bragg

SAMPLE MARKING: Sample TR 257, Received 7-12-88.

TEST PROCEDURE: EPA METHOD 601 AND 602 AS SET FORTH IN TEST METHODS FOR ORGANIC CHEMICAL ANALYSIS OF MUNICIPAL AND INDUSTRIAL WASTE EPA 600/4-82-027 JULY 1982.

RESULTS

WELL #5

	MICROGRAM/LITER (PPB)		MICROGRAM/LITER (PPB)
BROMODICHLOROMETHANE	<0.1	METHYLENE CHLORIDE	2.8
BROMOFORM	<0.1	TETRACHLOROETHENE	<0.1
BROMOMETHANE	<0.1	1,1,1-TRICHLOROETHANE	<0.1
CARBON TETRACHLORIDE	<0.1	1,1,2-TRICHLOROETHANE	<0.1
CHLOROBENZENE	<0.1	TRICHLOROETHENE	<0.1
CHLOROETHANE	<0.1	TRICHLOROFLUOROMETHANE	<0.1
2-CHLOROETHYLVINYL ETHER	<0.1	VINYL CHLORIDE	<0.1
CHLOROFORM	<0.1		
CHLOROMETHANE	<0.1	BENZENE	<1.0
DIBROMOCHLOROMETHANE	<0.1	TOLUENE	<1.0
1,2-DICHLOROBENZENE	<0.1	ETHYLBENZENE	<1.0
1,3-DICHLOROBENZENE	<0.1	XYLENES	<1.0
1,4-DICHLOROBENZENE	<0.1		
DICHLORODIFLUOROMETHANE	<0.1		
1,1-DICHLOROETHANE	<0.1		
1,2-DICHLOROETHANE	<0.1		
1,1-DICHLOROETHENE	<0.1		
T-1,2-DICHLOROETHENE	<0.1		
1,2-DICHLOROPROPANE	<0.1		
C-1,3-DICHLOROPROPENE	<0.1		
T-1,3-DICHLOROPROPENE	<0.1		
1,1,2,2-TETRACHLOROETHANE	<0.1		

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

Randy Brown

RANDY BROWN

RB:DB

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners
Laboratory Services

April 27, 1988

Mr. Harold Gillespie, P.E.
Environmental Protection Division
3420 Norman Berry Dr.
Hapeville, Ga. 30354

Subject: Southern States Landfill - Bolton Rd.
Fulton County, Georgia
T&R Project No. 5566-018-01

Dear Mr. Gillespie:

We have enclosed the quarterly test results on the groundwater monitoring at the referenced facility.

Should you have any questions, please call.

Yours very truly,

TRIBBLE & RICHARDSON, INC.

Bill

William F. Hodges, P.E.

WFH/mg

Enclosure

cc: Southern States Landfill w/enclosures

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION Bill Hodges, T&R

COLLECTED 4-7-88 BY T&R

RECEIVED 4-7-88 BY T&R SAMPLE: 24 HOUR COMPOSITE

DATE: RUN 4-11-88 FLOW PROPORTIONAL, GRAB

REPORTED 4-15-88 RUN BY Kathy S Brown

ANALYSIS	WELLS 1	2	3	4	5
Microtox %LL	19	(a) 25	(a) 26	(a) 26	(a) 30

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT (a) pH adjusted to eliminate any response due solely to pH Values are compared to a non-toxic standard of 14; there is not statistically significant difference between the standard and samples

P.O. Box 13147 Macon, Ga. 31208-0147/OFFICE 4875 Riverside Drive 31210

GROUNDWATER MONITORING

CLIENT Southern States Landfill DATE 4-7-88 TIME _____ BY BL

Well Ident.	Depth to Bottom(ft)	Depth to Water(ft)	Depth of Water(ft)	Well Diameter	Volume to Purge	COMMENTS
Well 1	180	75	105	6"	NOT PURGED DUE TO	Metal casing
Well 2	268	58	210	6"	EXCESSIVE WATER LEVEL	Metal casing
Well 3	58	27	31	4"	60.7	PVC casing
Well 4	44	28	16	4"	31.3	PVC casing
Well 5	44	28	16	4'	31.3	PVC casing

Municipal Solid Waste Control Program - EPD
3420 Norman Berry Drive - 7th Floor
Hapeville, Georgia 30354
404/656-2836

WATER MONITORING REPORT

SOLID WASTE DISPOSAL SITES

Site Name: Southern States Landfill-Bolton Road

Type Sample: ☐ Background ☒ Operational ☐ Other _____

Monitoring Results

Sampling Date April 7, 1988

Monitoring Station #	Analytical Results			Depth to Groundwater -Wells Only- (ft.)	Physical Condition of Monitoring Station (Describe)
	pH	Specific Conductance (µmhos)	Chlorides (mg/l)		
Well 1	6.3	700	47.4	75	6" metal
Well 2	6.2	550	11.5	58	6" metal
Well 3	5.8	725	73	27	4" PVC
Well 4	6.1	700	58.9	28	4" PVC
Well 5	6.0	575	14.1	28	4" PVC

Laboratory TRIBBLE & RICHARDSON, INC. Chemist Kathy Stege Bragg (KB) Telephone # 912 / 474- 6100

SOUTHERN STATES LANDFILL
WMW #1

HAZLABS, INC.
2264 Northwest Parkway, Suite F
Marietta, GA 30067
(404) 988-8184

VOLATILE ORGANIC ANALYSIS DATA (METHOD 624)

Client: Tribble & Richardson

Sample I.D.: TR503 HL I.D.: 8907088 Batch No.: 0720Th

Sample Description: Water

Date Report: 8/1/89 Date Sample Received: 7/20/89

COMPOUND	UNITS: ug/L	Q
Benzene	5	U
Bromodichloromethane	5	U
Bromoform	5	U
Bromomethane	10	U
Carbon Tetrachloride	5	U
Chlorobenzene	5	U
Chloroethane	10	U
2-Chloroethylvinyl Ether	10	U
Chloroform	5	U
Chloromethane	10	U
Dibromochloromethane	5	U
1,2-Dichlorobenzene	5	U
1,3-Dichlorobenzene	5	U
1,4-Dichlorobenzene	5	U
1,1-Dichloroethane	5	U
1,2-Dichloroethane	5	U
1,1-Dichloroethene	5	U
trans-1,2-Dichloroethene	5	U
1,2-Dichloropropane	5	U
cis-1,3-Dichloropropene	5	U
trans-1,3-Dichloropropene	5	U
Ethylbenzene	5	U
Methylene Chloride	5	U
1,1,2,2-Tetrachloroethane	5	U
Tetrachloroethene	5	U
Toluene	5	U
1,1,1-Trichloroethane	5	U
1,1,2-Trichloroethane	5	U
Trichloroethene	5	U
Trichlorofluoromethane	5	U
Vinyl Chloride	10	U

(Q): Qualifiers
B: Found in associated blank as well as sample
J: Estimated value, less than calibration limit
O: Estimated value, greater than calibration limit
U: Analyzed for but not detected

SOUTHERN STATE LANDFILL
WMW #2

HAZLABS, INC.
2264 Northwest Parkway, Suite F
Marietta, GA 30067
(404) 988-8184

VOLATILE ORGANIC ANALYSIS DATA (METHOD 624)

Client: Tribble and Richardson, Inc.

Sample I.D.: 516 **HL I.D.: 8907166** **Batch No.:0728H**

Sample Description: Water

Date Report: 8/14/89 **Date Sample Received: 7/28/89**

COMPOUND	UNITS: ug/L	Q
Acrolein	50	U
Acrylonitrile	10	U
Benzene	5	U
Bromodichloromethane	5	U
Bromoform	5	U
Bromomethane	10	U
Carbon Tetrachloride	5	U
Chlorobenzene	5	U
Chloroethane	10	U
2-Chloroethylvinyl Ether	10	U
Chloroform	5	U
Chloromethane	10	U
Dibromochloromethane	5	U
1,2-Dichlorobenzene	5	U
1,3-Dichlorobenzene	5	U
1,4-Dichlorobenzene	5	U
1,1-Dichloroethane	14	
1,2-Dichloroethane	5	U
1,1-Dichloroethene	5	U
trans-1,2-Dichloroethene	5	U
1,2-Dichloropropane	5	U
cis-1,3-Dichloropropene	5	U
trans-1,3-Dichloropropene	5	U
Ethylbenzene	5	U
Methylene Chloride	7	B
1,1,2,2-Tetrachloroethane	5	U
Tetrachloroethene	23	
Toluene	5	U
1,1,1-Trichloroethane	5	U
1,1,2-Trichloroethane	5	U
Trichloroethene	5	U
Trichlorofluoromethane	5	U
Vinyl Chloride	10	U

(Q): Qualifiers
B: Found in associated blank as well as sample
J: Estimated value, less than calibration limit
O: Estimated value, greater than calibration limit
U: Analyzed for but not detected

SOUTHERN STATES LANDFILL
WMW #3

HAZLABS, INC.
2264 Northwest Parkway, Suite F
Marietta, GA 30067
(404) 988-8184

VOLATILE ORGANIC ANALYSIS DATA (METHOD 624)

Client: Tribble & Richardson

Sample I.D.: TR504 HL I.D.: 8907089 Batch No.: 0720Th

Sample Description: Water

Date Report: 8/1/89 Date Sample Received: 7/20/89

COMPOUND	UNITS: ug/L	Q
Benzene	5	U
Bromodichloromethane	5	U
Bromoform	5	U
Bromomethane	10	U
Carbon Tetrachloride	5	U
Chlorobenzene	5	U
Chloroethane	10	U
2-Chloroethylvinyl Ether	10	U
Chloroform	5	U
Chloromethane	10	U
Dibromochloromethane	5	U
1,2-Dichlorobenzene	5	U
1,3-Dichlorobenzene	5	U
1,4-Dichlorobenzene	5	U
1,1-Dichloroethane	5	U
1,2-Dichloroethane	5	U
1,1-Dichloroethene	5	U
trans-1,2-Dichloroethene	5	U
1,2-Dichloropropane	5	U
cis-1,3-Dichloropropene	5	U
trans-1,3-Dichloropropene	5	U
Ethylbenzene	5	U
Methylene Chloride	5	U
1,1,2,2-Tetrachloroethane	5	U
Tetrachloroethene	5	U
Toluene	5	U
1,1,1-Trichloroethane	5	U
1,1,2-Trichloroethane	5	U
Trichloroethene	5	U
Trichlorofluoromethane	5	U
Vinyl Chloride	10	U

(Q): Qualifiers
B: Found in associated blank as well as sample
J: Estimated value, less than calibration limit
O: Estimated value, greater than calibration limit
U: Analyzed for but not detected

SOUTHERN STATE LANDFILL
WMW #4

HAZLABS, INC.
2264 Northwest Parkway, Suite F
Marietta, GA 30067
(404) 988-8184

VOLATILE ORGANIC ANALYSIS DATA (METHOD 624)

Client: Tribble and Richardson, Inc.

Sample I.D.: 517 HL I.D.: 8907167 Batch No.:0728H

Sample Description: Water

Date Report: 8/14/89 Date Sample Received: 7/28/89

COMPOUND	UNITS: ug/L	Q
Acrolein	50	U
Acrylonitrile	10	U
Benzene	5	U
Bromodichloromethane	5	U
Bromoform	5	U
Bromomethane	10	U
Carbon Tetrachloride	5	U
Chlorobenzene	5	U
Chloroethane	10	U
2-Chloroethylvinyl Ether	10	U
Chloroform	5	U
Chloromethane	10	U
Dibromochloromethane	5	U
1,2-Dichlorobenzene	5	U
1,3-Dichlorobenzene	5	U
1,4-Dichlorobenzene	5	U
1,1-Dichloroethane	5	U
1,2-Dichloroethane	5	U
1,1-Dichloroethene	5	U
trans-1,2-Dichloroethene	5	U
1,2-Dichloropropane	5	U
cis-1,3-Dichloropropene	5	U
trans-1,3-Dichloropropene	5	U
Ethylbenzene	5	U
Methylene Chloride	5	U
1,1,2,2-Tetrachloroethane	5	U
Tetrachloroethene	5	U
Toluene	5	U
1,1,1-Trichloroethane	5	U
1,1,2-Trichloroethane	5	U
Trichloroethene	5	U
Trichlorofluoromethane	5	U
Vinyl Chloride	10	U

(Q): Qualifiers
B: Found in associated blank as well as sample
J: Estimated value, less than calibration limit
O: Estimated value, greater than calibration limit
U: Analyzed for but not detected

SOUTHERN STATE LANDFILL
SURFACE WATER

HAZLABS, INC.
2264 Northwest Parkway, Suite F
Marietta, GA 30067
(404) 988-8184

VOLATILE ORGANIC ANALYSIS DATA (METHOD 624)

Client: Tribble and Richardson, Inc.

Sample I.D.: 519 HL I.D.: 8907169 Batch No.:0728H

Sample Description: Water

Date Report: 8/14/89 Date Sample Received: 7/28/89

COMPOUND	UNITS: ug/L	Q
Acrolein	50	U
Acrylonitrile	10	U
Benzene	5	U
Bromodichloromethane	5	U
Bromoform	5	U
Bromomethane	10	U
Carbon Tetrachloride	5	U
Chlorobenzene	5	U
Chloroethane	10	U
2-Chloroethylvinyl Ether	10	U
Chloroform	5	U
Chloromethane	10	U
Dibromochloromethane	5	U
1,2-Dichlorobenzene	5	U
1,3-Dichlorobenzene	5	U
1,4-Dichlorobenzene	5	U
1,1-Dichloroethane	5	U
1,2-Dichloroethane	5	U
1,1-Dichloroethene	5	U
trans-1,2-Dichloroethene	5	U
1,2-Dichloropropane	5	U
cis-1,3-Dichloropropene	5	U
trans-1,3-Dichloropropene	5	U
Ethylbenzene	5	U
Methylene Chloride	10	B
1,1,2,2-Tetrachloroethane	5	U
Tetrachloroethene	5	U
Toluene	5	U
1,1,1-Trichloroethane	5	U
1,1,2-Trichloroethane	5	U
Trichloroethene	5	U
Trichlorofluoromethane	5	U
Vinyl Chloride	10	U

(Q): Qualifiers
B: Found in associated blank as well as sample
J: Estimated value, less than calibration limit
O: Estimated value, greater than calibration limit
U: Analyzed for but not detected

SOUTHERN STATE LANDFILL
WMW #5

HAZLABS, INC.
2264 Northwest Parkway, Suite F
Marietta, GA 30067
(404) 988-8184

VOLATILE ORGANIC ANALYSIS DATA (METHOD 624)

Client: Tribble and Richardson, Inc.

Sample I.D.: 518 **HL I.D.: 8907168** **Batch No.:0728H**

Sample Description: Water

Date Report: 8/14/89 **Date Sample Received: 7/28/89**

COMPOUND	UNITS: ug/L	Q
Acrolein	50	U
Acrylonitrile	10	U
Benzene	5	U
Bromodichloromethane	5	U
Bromoform	5	U
Bromomethane	10	U
Carbon Tetrachloride	5	U
Chlorobenzene	5	U
Chloroethane	10	U
2-Chloroethylvinyl Ether	10	U
Chloroform	5	U
Chloromethane	10	U
Dibromochloromethane	5	U
1,2-Dichlorobenzene	5	U
1,3-Dichlorobenzene	5	U
1,4-Dichlorobenzene	5	U
1,1-Dichloroethane	5	U
1,2-Dichloroethane	5	U
1,1-Dichloroethene	5	U
trans-1,2-Dichloroethene	5	U
1,2-Dichloropropane	5	U
cis-1,3-Dichloropropene	5	U
trans-1,3-Dichloropropene	5	U
Ethylbenzene	5	U
Methylene Chloride	6	B
1,1,2,2-Tetrachloroethane	5	U
Tetrachloroethene	5	U
Toluene	5	U
1,1,1-Trichloroethane	5	U
1,1,2-Trichloroethane	5	U
Trichloroethene	5	U
Trichlorofluoromethane	5	U
Vinyl Chloride	10	U

(Q): Qualifiers
B: Found in associated blank as well as sample
J: Estimated value, less than calibration limit
O: Estimated value, greater than calibration limit
U: Analyzed for but not detected

Tribble & Richardson Inc.
Consulting Engineers / Surveyors / Planners
Laboratory Services

CLIENT Southern States Landfill ATTENTION Raymond Cash

COLLECTED 7-18-89 BY T&R SAMPLE: 24 HOUR COMPOSITE

RECEIVED 7-18-89 BY T&R FLOW PROPORTIONAL, GRAB

REPORTED 8-15-89 RELEASED BY: Kathy S. Bragg

LOCATION						
ANALYSIS	UNITS	Well #1	Well #2	BY	DATE RUN	METHOD
Microtox	%LL			KB	7-21	
5 Minutes	%	17	27			
15 Minutes	%	12	28			
		Well #3	Well #4			
Microtox	%LL			KB	7-21	
5 Minutes	%	49	14			
15 Minutes	%	—	7			
		Well #5	Surface Water			
Microtox	%LL			KB	7-21	
5 Minutes	%	25	< 1			
15 Minutes	%	23	< 1			

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

P.O. BOX 17147 AUGUSTA, GA. 31909 0147 / OFFICE 1875 RIVERSIDE DRIVE 31210

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners
Laboratory Services

TO: Steve Harbin

FROM: Kathy Bragg KB

DATE: March 8, 1989

SUBJECT: Southern States Landfill, groundwater sample results Collected January 24, 1989

I have compared the results to previous sampling events. of Note:

1. Well 3 is downgradiant adjacent to the river. It is constructed of PVC and was purged 3 volumes. The conductance of 378 umhos/cm was about 1/3 of the 10-27-88 value of 1275. It does not make any sense for a downgradiant well to get cleaner. This gives a strong suspicion of stream recharge of this well, particularly since we've had rain and stream levels were up at the time of sampling in January, but low in October.

2. [redacted] There may or may not be contamination. These parameters should be watched for an increase. This may not happen; for instance, well 2 had vinyl chloride last time, but not this time.

3. All the other parameters look fine. There is no significant change since the last sampling.

KSB/tjo

P.O. BOX 13147, MACON, GA 31208-3147 / 4875 RIVERSIDE DRIVE 31210-1117 / 912-474-6100

Georgia Departme of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

November 20, 1987

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Ground-Water Monitoring at the Southern States, Bolton Road Sanitary Landfill

Dear Mr. Cash:

Ground water samples collected from wells adjacent to the subject facility show consistently high levels of specific conductance and chlorides. Over the period from 1984 to 1987, specific conductance in the three downgradient wells averages approximately 800 µmhos per cubic centimeter.

Therefore, please develop an assessment monitoring plan for the Bolton Road facility. The goal of an assessment monitoring plan is to define the extent of contamination and to identify specific chemical constituents in the leachate. Submit the completed plan to this office by January 31, 1988.

If there are any further questions, please do not hesitate to contact Tom Watson at 404/656-2836.

Sincerely,

James W. Dunbar
Program Manager
Solid Waste Management Program

JWD:twf
c: John D. Taylor, Jr.
Morgan V. Cantrell
File (WM)

Department of Natural Resources
Environmental Protection Divison
Land Protection Branch
Municipal Solid Waste Control Program
Permit Review Unit
3420 Norman Berry Drive - 7th Floor
Hapeville, GA 30354
404/656-2836

Water Monitoring

Solid Waste Disposal Sites

A sanitary landfill sited in an acceptable hydrogeological location will have the lowest probability of contaminating surface or groundwater resources. However, even properly sited and operated sanitary landfills may develop leachate problems. If leachate migrates off the site, EPD may require the sanitary landfill owners to take remedial actions. Water monitoring must be conducted at sanitary landfills to detect any migration of leachate. Thus contamination of groundwater or surface water can be avoided by timely control of leachate.

In those areas where the surface and groundwater regimes are closely interconnected (mainly the Piedmont and Blue Ridge), sampling of a surface stream may be an effective monitoring technique which can be used in lieu of groundwater monitoring.The decision on whether surface water monitoring may be used instead of groundwater monitoring will be made on a case by case basis by EPD.

An effective groundwater monitoring program consists of the following steps:

(1) Determination of groundwater regime and placement of wells;

(2) Design of wells;

(3) Construction of wells;

(4) Periodic sampling of wells and analysis of samples; and

(5) Reporting analytical data to EPD.

The number of wells constructed at a site is variable, but there should be a sufficient number to intercept a plume of migrating leachate once it enters the groundwater regime. Therefore, wells should be placed downgradient of the site. The distance between the downgradient wells depends upon the hydraulic conductivity of the material through which the leachate moves. The distance between wells decreases for materials of increasing hydraulic conductivity. At least one upgradient well should also be constructed in order to determine the background quality of the water before the introduction of leachate. Monitoring wells should be constructed of 4 inch, schedule 40 PVC casing above the water table and slotted PVC tubing of the same diameter for 20 feet beneath the water table. Figure 1 illustrates a typical monitoring well.

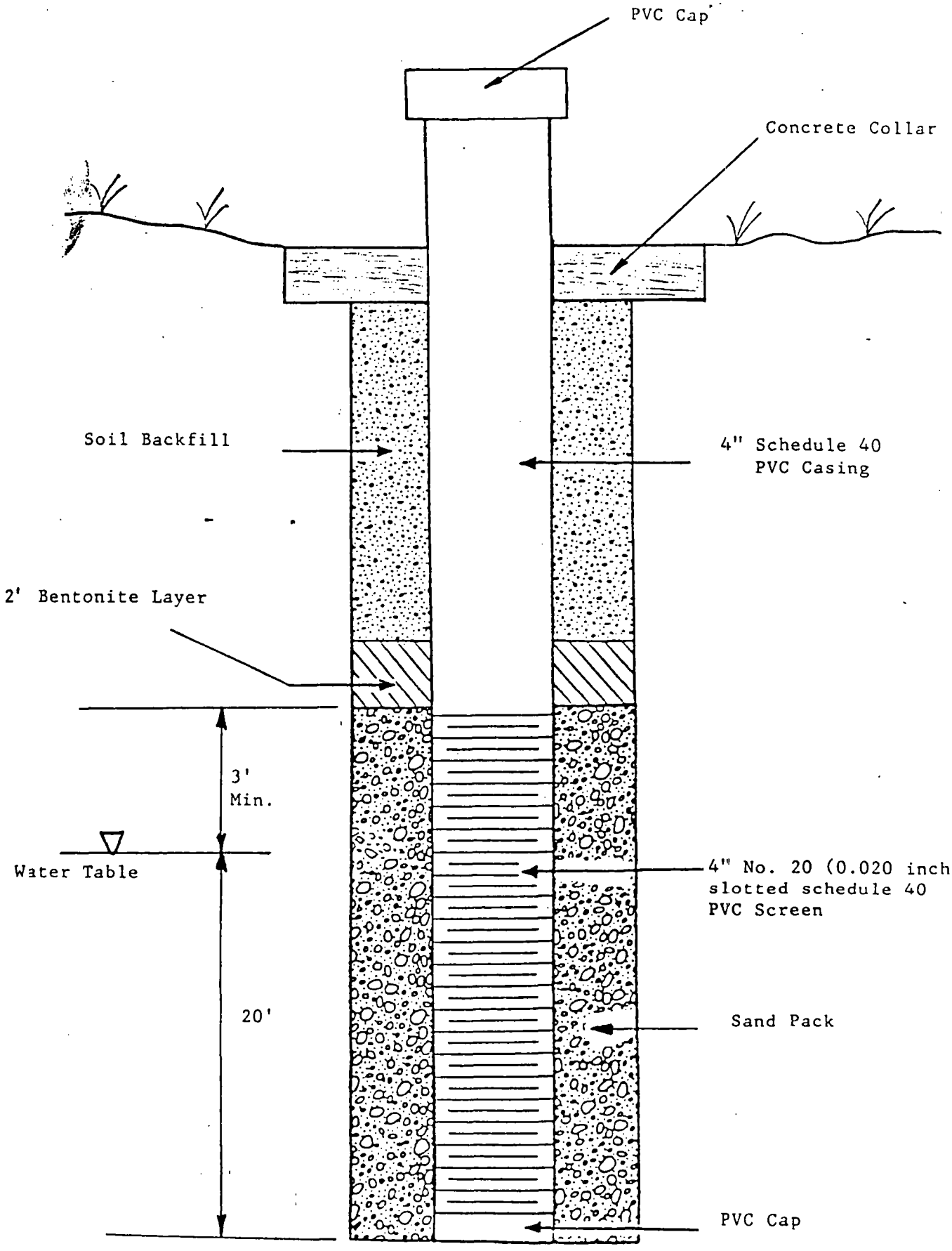


Figure 1
Monitoring Well
(2)

Ground/surface monitoring may not be required in counties having a population of less than 10,000 persons unless there is a compelling reason (i.e., nearby public water supply source, recharge area of an aquifer, etc.).

Parameters

The following parameters are to be determined for all monitoring points specified on the approved design and operation plan:

1. pH
2. Specific Conductance
3. Chlorides
4. Depth to Water Table (groundwater monitoring wells only).

This key indicator group for disposal sites in Georgia will yield reliable, useful data at relatively low cost to the owner/operator.

If unacceptable indicator levels develop and persist, EPD will specify additional site specific parameters to be tested by the owner to establish and verify the magnitude and extent of any contamination. Further analysis may be required to determine corrective action necessary to rectify any problems.

Schedule

The schedule for monitoring a site is:

1. Background - This monitoring data is gathered from each monitoring point prior to startup of the disposal operation. The Solid Waste Handling Permit will not be issued until complete background data i submitted to the Municipal Solid Waste Control Program, EPD.

2. Frequency - Each monitoring point is to be periodically sampled after disposal operations begin.

   a. Groundwater monitoring wells:

      Each well is to be sampled annually in September or October.

   b. Surface water monitoring points:

      Each point is to be sampled semi-annually in March or April and September or October.

   c. Termination:

      Monitoring shall continue until results verify a decreasing trend in indicator/contaminant levels or that steady state conditions have been attained.

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

January 9, 1987

Fulton Co
Southern States - Bolton Rd. San.

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

On January 5, 1987, Mr. Morgan V. Cantrell and I were accompanied by Mr. Eric Cash and Mr. Leon Watkins on an inspection of the above subject site. Enclosed is a copy of the report delineating the operational improvements needed.

You will notice that a new Disposal Site Evaluation Report form is now being used. The new form continues to address all requirements of the Solid Waste Management Act and the Rules, and clarifies areas regarding Design and Operational Plan such as sediment control and drainage control. We have compared the new form and old form for several months and encountered no problems. The grade ratings for each form were very similar so that little, if any rating differential should be experienced using the new form.

Also, I bring to your attention the fact that the demolition debris currently stockpiled for burning in your air curtain destructor is not acceptable as defined under your Permit No. 060-067P(Inc). Please dispose of this waste appropriately in your site. Further, no solid waste should be burned in the air curtain destructor until the entire structure is completed in accord with the approved D & O Plan.

Should you have any questions regarding this report or desire technical assistance in solid waste handling, please feel free to call me at 404/656-2836.

Sincerely,

Donald H. McCarty, Jr.

Donald H. McCarty, Jr.
Environmental Specialist
Solid Waste Control Unit

DHMc:sf
Enclosure: Evaluation Report dated 1/5/87
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

A*	U*		
		6. Grading and Drainage (0,6)	
☒	☐	a. slope of disposal area sufficient to maximize runoff and minimize erosion	
☒	☐	b. maintenance of ditches, swales, berms, terraces, trenches	
☒	☐	c. maintenance of drainage structures (downdrains, pipes, inlets, etc.)	
		7. Continuity of Operation (0,2)	
☒	☐	a. all weather access roads to disposal area	2
☒	☐	b. provisions for prompt equipment repair or replacement when needed	
		8. Environmental Protection	
		a. Air (0,4)	
☒	☐	1) dust control	4
☒	☐	2) maintenance of methane gas structures (if required)	
		b. Land (0,6)	
☒	☐	1) maintenance of eroded areas	6
☒	☐	2) finished areas vegetated or otherwise protected to prevent erosion	
☒	☐	3) disturbed areas, including soil stockpiles, vegetated to prevent erosion	
☒	☐	4) Maintenance of silt control structures (haybales, fabric fences, riprap, etc.)	
☒	☐	5) maintenance of ponds and basins (standpipes, emergency spillways, sediment removal, etc.)	
		c. Water (0,6)	
☒	☐	1) leachate control (includes collection and treatment if required)	6
☒	☐	2) water monitoring points clearly identified, accessible and in good condition	
☒	☐	3) water monitoring analysis current	
		9. Supervision (0,4)	
☒	☐	a. site under supervision of responsible individual	4
☒	☐	b. responsible individual at the disposal site at all times while site is operational	
		10. Limited Access (0,6)	
☒	☐	a. access limited to authorized entrances	6
☒	☐	b. authorized entrances closed when site is not in operation	
		11. Rubbish and Litter Control (0,4)	
☒	☐	a. exposed rubbish and debris (except in designated reclamation area)	0
☐	☒	b. litter control (fencing or other barriers, daily policing)	

A*	U*		
		12. Fire Protection and Stockpiled Soil (0,4)	
☒	☐	a. soil placed near the working face to control fires or to be used for cover during periods of inclement weather	4
☒	☐	b. other fire fighting methods provided	
☒	☐	c. soil stockpiles (overburden, fire control, cover) placed so as not to be a "cave-in" threat to open trenches	
		13. Special Waste (0,4)	
☒	☐	a. special provisions for immediate disposal of dead animals or highly putrescible waste (eggs, entrails, offal, etc.)	4
☒	☐	b. provisions for handling asbestos or other waste requiring special handling	

Additional Stipulations

☒	☐	14. informational and directional signs posted (0,2)	
☒	☐	15. site communications (telephone, two-way radio) (0,2)	
☒	☐	16. employee facility (toilet, drinking water, first aid kit)(0,2)	
☒	☐	17. control of vectors (0,2) if a vector problem exists or is indicated, check the appropriate vector: insects ☐ rodents ☐ birds ☐ animals ☐	

Sanitary Landfill Rating (SLR)= 92 . SLR excluding prohibited acts ____.
SLR must be 86 or higher to be an acceptable sanitary landfill.

A* denotes acceptable parameter.

U* denotes unacceptable parameter. (A single parameter for any requirement may be sufficient to preclude any score for that requirement.)

Comments:

1. I WAS ACCOMPANIED BY MORGAN V. CANTRELL, UNIT COORDINATOR, SOLID WASTE CONTROL UNIT, ERIC CASH, LARRY E. WOODALL, LEON WATKINS, AND JOE MILLS.
2. OVERALL, DAILY OPERATIONS WERE OBSERVED TO BE SATISFACTORY.
3. THE SITE MUST BE POLICED FOR LITTER.
4. SEVERAL LOCATIONS IN AREAS 1A AND 1AD NEED ADDITIONAL GRADING AND ADDITIONAL EARTH COVER APPLIED TO MEET THE INTERMEDIATE COVER REQUIREMENT. THESE LOCATIONS HAVE SOLID WASTE PROTRUDING THROUGH THE EARTH COVER.
5. THE AIR CURTAIN DESTRUCTOR WAS BEING OPERATED IN A SATISFACTORY MANNER STRICTLY WOOD WASTE WAS BEING BURNED DURING THE INSPECTION.
6. SILTATION CONTROL STRUCTURES WERE WELL MAINTAINED.
7. SEWAGE RELATED ODORS WERE NOTED FROM AN OFF-SITE SOURCE.

Location of current operations:
Phase [1] Area/trench [1A] Lift [5]

Time of inspection: 11:10 A.M. Weather conditions: SUNNY & COLD

Reasons for inspection: ☒ Routine ☐ Other _____

Discussed with:

	Name	Title	Address	Telephon
1)	ERIC CASH	VICE PRESIDENT	SOUTHERN STATES LANDFILL, INC. 4696 OAKDALE ROAD, SMYRNA, GA 30080	435-9962
2)	LARRY E. WOODALL	VICE PRESIDENT, ADMINISTRATIVE	(SAME AS ABOVE)	
3)	LEON WATKINS	SITE SUPERVISOR	(SAME ADDRESS ABOVE)	799-1273
4)	JOE MILLS	SITE SUPERVISOR	(SAME AS ABOVE)	

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	RAYMOND CASH	PRESIDENT	(SAME ADDRESS ABOVE)	435-9962
2)	W. CEDRIC MADDOX	DIRECTOR, BUREAU OF SANITARY SERVICES	1540 NORTHSIDE DRIVE, ATLANTA, GA 30318	351-0289
3)	M. DE VON BOGUE	DIRECTOR OF ENVIRONMENTAL HEALTH SERVICES	FULTON COUNTY HEALTH DEPARTMENT, 99 BUTLER ST., SE, ATLANTA, GA 303	572-2116
4)				

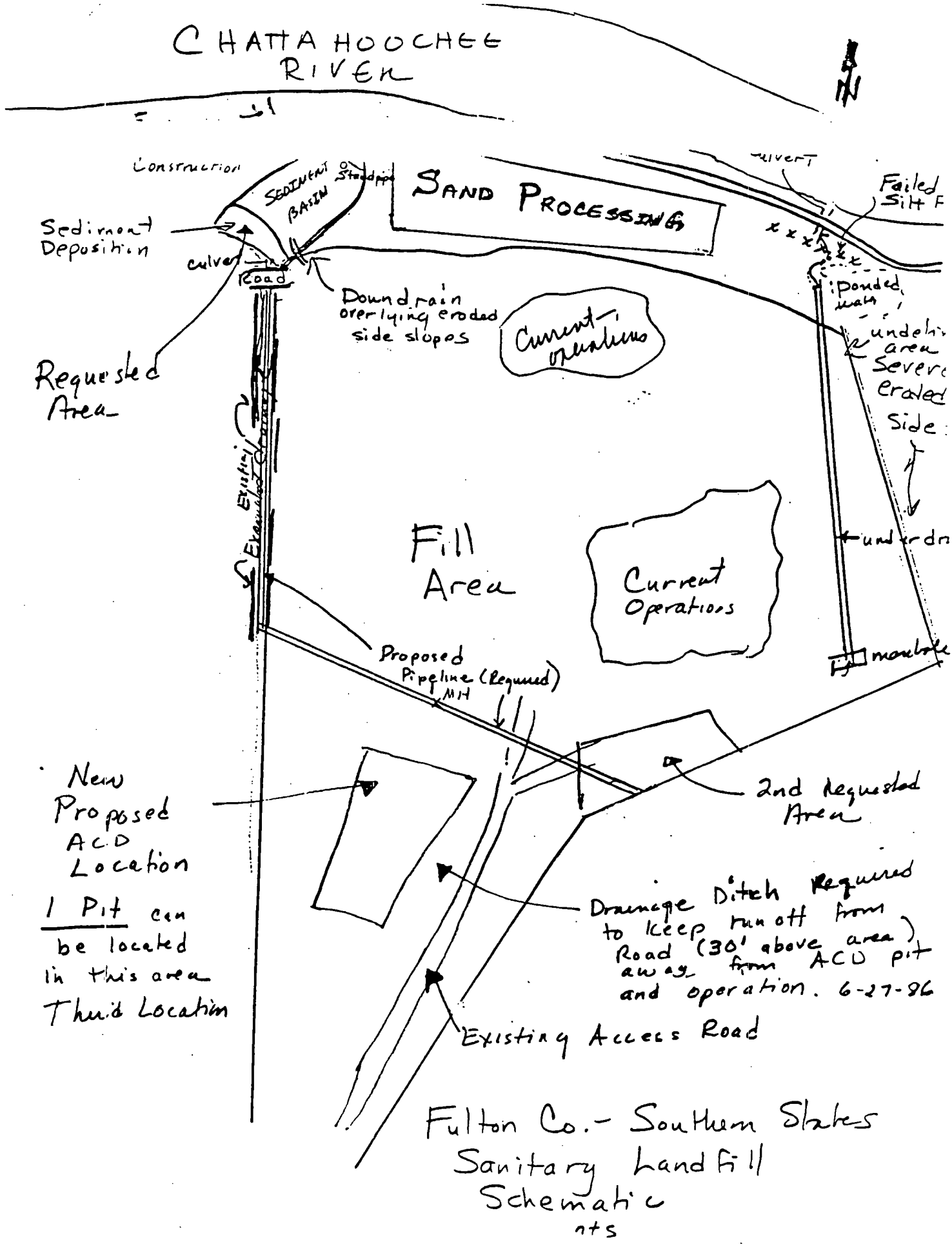
Photographs: ☐ Yes ☒ No: Total number ____: Location filed: _____

Inspected by: Donald H. McCarty, Jr.

Reviewed by: Morgan V. Cantrell Review date: 1-14-88

Attachments: NONE

Comments (Cont'd)


CHATTAHOOCHEE RIVER
N
Construction
SEDIMENT BASIN
Standpipe
SAND PROCESSING
culvert
Failed Silt F
Sediment Deposition
culvert
Road
Downdrain overlying eroded side slopes
Current operations
ponded wate
Requested Area
undeli
area
Severe
eroded
Side
Existing Entrance
Fill Area
Current Operations
undrdr
manhole
Proposed Pipeline (Required)
MH
New Proposed ACD Location
1 Pit can be located in this area
Third Location
2nd Requested Area
Drainage Ditch Required to keep run off from Road (30' above area) away from ACD pit and operation. 6-27-86
Existing Access Road
Fulton Co.- Southern States
Sanitary Landfill
Schematic
nts

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County FULTON (ATLANTA)

Date APRIL 22, 1988

Permit Number 060-0100(S

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 86

Site Name SOUTHERN STATES — BOLTON ROAD

PROHIBITED ACTS **If any of the following exists or is indicated, SLR = 0. Check**

- ☐ Operating a disposal site without a permit. NOTE: if permit applicati has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0,15) **Check appropriate blocks and state rating** Rati:

A*	U*		
☒	☐	Site being operated in accordance with permit and design and operational plan.	15

REQUIREMENTS **Check appropriate blocks and state individual rating**

		1. Unloading (0,4)	
☒	☐	a. restricted to the working face or immediate vicinity	4
☒	☐	b. waste easily incorporated into the working face	
		2. Spreading and Compaction (0,4)	
☒	☐	a. waste spread into uniform layers, (generally two feet thick)	4
☒	☐	b. waste compacted to smallest practical volume	
☒	☐	c. size of working face minimized	
		3. Daily Cover (0,15)	
☒	☐	a. compacted, clean earth, 6" thickness (minimum)	15
☒	☐	b. placed over waste at the end of each working day **NOTE:** In all cases waste must be covered with earth at least every 24 hours	
		4. Intermediate Cover (0,4)	
☒	☐	a. compacted, clean earth, one foot thickness (minimum)	4
☒	☐	b. placed over each portion of any intermediate lift/area following completion of that portion	
☐		c. none required at this time	
		5. Final Cover (0,4)	
☐	☒	a. compacted, clean earth, two feet thickness (minimum)	0
☐	☒	b. placed over final lift not later than one month following placement of waste within that lift	
☐		c. none required at this time	

A*	U*		
		6. Grading and Drainage (0,6)	
☒	☐	a. slope of disposal area sufficient to maximize runoff and minimize erosion	
☒	☐	b. maintenance of ditches, swales, berms, terraces, trenches	
☐	☒	c. maintenance of drainage structures (downdrains, pipes, inlets, etc.)	
		7. Continuity of Operation (0,2)	
☒	☐	a. all weather access roads to disposal area	2
☒	☐	b. provisions for prompt equipment repair or replacement when needed	
		8. Environmental Protection	
		a. Air (0,4)	
☒	☐	1) dust control	4
☒	☐	2) maintenance of methane gas structures (if required)	
		b. Land (0,6)	
☒	☐	1) maintenance of eroded areas	6
☒	☐	2) finished areas vegetated or otherwise protected to prevent erosion	
☒	☐	3) disturbed areas, including soil stockpiles, vegetated to prevent erosion	
☒	☐	4) Maintenance of silt control structures (haybales, fabric fences, riprap, etc.)	4
☒	☐	5) maintenance of ponds and basins (standpipes, emergency spillways, sediment removal, etc.)	
		c. Water (0,6)	
☒	☐	1) leachate control (includes collection and treatment if required)	6
☒	☐	2) water monitoring points clearly identified, accessible and in good condition	
☒	☐	3) water monitoring analysis current	
		9. Supervision (0,4)	
☒	☐	a. site under supervision of responsible individual	4
☒	☐	b. responsible individual at the disposal site at all times while site is operational	
		10. Limited Access (0,6)	
☒	☐	a. access limited to authorized entrances	6
☒	☐	b. authorized entrances closed when site is not in operation	
		11. Rubbish and Litter Control (0,4)	
☒	☐	a. exposed rubbish and debris (except in designated reclamation area)	0
☐	☒	b. litter control (fencing or other barriers, daily policing)	

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

May 12, 1988

Fulton Co
Southern States - Bo
P.O. SL

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

An inspection of the subject solid waste disposal site was conducted on April 22, 1988. Enclosed for your review is an evaluation report delineating my observations of the operating conditions during the visit.

Again, we found the overall operating conditions to be satisfactory. Our inspection of the air curtain destructor revealed the pit was full of ashes and the walls were beginning to slough off. Correct these deficiencies and others as outlined in the comments of the evaluation report.

If you have any questions regarding this report or desire technical assistance in solid waste handling, please feel free to call me at 404/656-2836.

Sincerely,

Donald H. McCarty, Jr.

Donald H. McCarty, Jr.
Environmental Specialist
Solid Waste Control Unit

DHMc:sf
Enclosure: Evaluation Report dated 4/22/88
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

Fulton (Atlanta)
Sou. States - Bolton Rd.

SOUTHERN STATES LANDFILL, INC.

4696 OAKDALE ROAD
SMYRNA, GA 30080
435-9962

July 7, 1988

Mr. Chester J. Funnye', P.E.
Commissioner, Department of Public Works
CITY OF ATLANTA
224 Central Avenue, SW
Atlanta, Georgia 30335

Dear Commissioner Funnye':

Southern States Landfill was notified in a letter on June 13, 1988, from the City of Atlanta to cease acceptance of asbestos until such time as we receive approval from the Disposal Operations' Manager, Bureau of Sanitation Services.

Please accept this letter as our request for approval to receive asbestos material to be landfilled as a "special waste".

We are presently receiving asbestos as a "special waste" through authority granted by the Georgia Environmental Protection Division. We are authorized to handle asbestos subject to its being handled as "special waste". The material is being landfilled according to both Federal Environmental Protection Agency regulations, as well as the Georgia Environmental Protection Division's regulations.

If the City of Atlanta has adopted additional regulations other than these mentioned, please send us any published copies of these regulations or ordinances.

Thank you for your consideration. If there are any questions, please feel free to call me at 435-9962.

Sincerely,

Raymond M. Cash, President

RMC:kcc

cc: Cedric Maddox
Claude W. Goodley
James Dunbar
Hildred W. Shumake
Tom Chorey

Fulton (Atlanta)
Sou. States - Bolton Rd.

CITY OF ATLANTA

1540 NORTHSIDE DR., N.W. · ATLANTA, GA. 30318
(404) 351-0061

ANDREW YOUNG
MAYOR

DEPARTMENT OF PUBLIC WORKS
CHESTER J. FUNNYE', P.E.
Commissioner

BUREAU OF SANITARY SERVICES
W. CEDRIC MADDOX
Director

July 7, 1988

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

Subject: Illegal Disposal of Asbestos
at the Southern State Landfill

Dear Mr. Cash:

It has come to my attention that the Southern States Landfill is operating not in accordance to it's approved permit and is disposing of asbestos which is a Special Waste. Items number 29 and 30, of your approved Design and Operational Plan states that your landfill does not accept Hazardous Waste or Special Waste. Before you can legally dispose of asbestos your operational plan must be amended and you must have approval granted before you can legally dispose of asbestos within the City of Atlanta. You are instructed to cease the disposal of all asbestos waste material at the Southern States Sanitary Landfill immediately.

Failure to comply will necessitate additional actions. If there are any questions, do not hesitate to contact me at 351-0215.

Sincerely,

W. Cedric Maddox, Director
Bureau of Sanitary Services

WCM/CWG:bpw

cc: Chester J. Funnye', Commissioner
K. C. Marks, III, Deputy Director
Claude W. Goodley, Jr., Disposal Operations Manager
J.L. Ledbetter, Commissioner, Georgia DNR/EPD

Photocopy to: James W. Dunbar

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County FULTON (ATLANTA)

Date JUNE 23, 1989

Permit Number 060-010DG

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 67

Site Name SOUTHERN STATES – BOLTON ROAD

PROHIBITED ACTS **If any of the following exists or is indicated, SLR = 0. Check**

- ☐ Operating a disposal site without a permit. NOTE: if permit applicatio has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0, 15) **Check appropriate blocks and state rating** Ratin

A*	U*		
☒	☐	Site being operated in accordance with permit and design and operational plan.	15

REQUIREMENTS **Check appropriate blocks and state individual rating**

		1. Unloading (0,4)	
☒	☐	a. restricted to the working face or immediate vicinity	4
☒	☐	b. waste easily incorporated into the working face	
		2. Spreading and Compaction (0,4)	
☒	☐	a. waste spread into uniform layers, (generally two feet thick)	4
☒	☐	b. waste compacted to smallest practical volume	
☒	☐	c. size of working face minimized	
		3. Daily Cover (0,15)	
☐	☒	a. compacted, clean earth, 6" thickness (minimum)	0
☐	☒	b. placed over waste at the end of each working day NOTE: In all cases waste must be covered with earth at least every 24 hours	
		4. Intermediate Cover (0,4)	
☒	☐	a. compacted, clean earth, one foot thickness (minimum)	4
☒	☐	b. placed over each portion of any intermediate lift/area following completion of that portion	
☐		c. none required at this time	
		5. Final Cover (0,4)	
☒	☐	a. compacted, clean earth, two feet thickness (minimum)	4
☒	☐	b. placed over final lift not later than one month following placement of waste within that lift	
☐		c. none required at this time	

A*	U*		
		12. Fire Protection and Stockpiled Soil (0,4)	
☒	☐	a. soil placed near the working face to control fires or to be used for cover during periods of inclement weather	4
☒	☐	b. other fire fighting methods provided	
☒	☐	c. soil stockpiles (overburden, fire control, cover) placed so as not to be a "cave-in" threat to open trenches	
		13. Special Waste (0,4)	
☒	☐	a. special provisions for immediate disposal of dead animals or highly putrescible waste (eggs, entrails, offal, etc.)	4
☒	☐	b. provisions for handling asbestos or other waste requiring special handling	
		Additional Stipulations	
☒	☐	14. informational and directional signs posted (0,2)	2
☒	☐	15. site communications (telephone, two-way radio) (0,2)	2
☒	☐	16. employee facility (toilet, drinking water, first aid kit)(0,2)	2
☒	☐	17. control of vectors (0,2) if a vector problem exists or is indicated, check the appropriate vector:	2
		insects ☐ rodents ☐ birds ☐ animals ☐	

Sanitary Landfill Rating (SLR)= 86 . SLR excluding prohibited acts ____.
SLR must be 86 or higher to be an acceptable sanitary landfill.

A* denotes acceptable parameter.

U* denotes unacceptable parameter. (A single parameter for any requirement may be sufficient to preclude any score for that requirement.)

Comments:

1. I WAS ACCOMPANIED BY MORGAN V. CANTRELL, UNIT COORDINATOR, SOLID WASTE CONTROL UNIT, ERIC CASH, LARRY E. WOODALL, AND LEON WATKINS.
2. THE DRAINAGE PIPES LOCATED AT STATION 15+00 AND THE LINE DELINEATING AREAS 1B / 1AD AND LOCATED ON THE NORTHERN SLOPE WHICH RUNS UNDER THE BACK ACCESS ROAD HAVE SILTED IN.
3. LITTER WAS EXCESSIVE.
4. FINAL COVER WAS INSUFFICIENT ALONG THE SLOPE OF THE CURRENT LIFT NEAR THE WORKING FACE IN AREA 1B AND ALONG THE SLOPE IN THE SOUTHEASTERN CORNER NEAR THE RAILROAD TRACKS.
5. INSPECTION OF THE AIR CURTAIN DESTRUCTOR REVEALED THAT THE PIT WAS FULL OF ASHES, WHILE THE WALLS OF THE PIT WERE BEGINNING TO SLOUGH OFF. CLEAN OUT THE ASHES AND RECONSTRUCT THE WALLS OF THE BURN PIT. ITEMS ARE REQUIRED UNDER PERMIT NO. 060-067P

(OVER)

Location of current operations:
Phase [1] Area/trench [1B] Lift [ ]

Time of inspection: 1:45 p.m. Weather conditions: Sunny & Warm

Reasons for inspection: ☒ Routine ☐ Other _____

Discussed with:

	Name	Title	Address	Telephone
1)	Eric Cash	Vice President	Southern States Landfill, Inc., 4696 Oakdale Road, Smyrna, GA 30080	435-9962
2)	Larry E. Woodall	Vice President, Administrative	(Same As Above)	
3)	Leon Watkins	Site Supervisor	(Same Address Above)	799-1273
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	Raymond Cash	President	(Same Address Above)	435-9962
2)	W. Cedric Maddox	Director, Bureau of Sanitary Services	1540 Northside Drive, Atlanta, GA 30318	351-0287
3)	M. De Von Bogue	Director of Environmental Health Services	Fulton County Health Department, 99 Butler St., SE, Atlanta, GA 30303	572-2116
4)				

Photographs: ☐ Yes ☒ No: Total number ____: Location filed: _____

Inspected by: Donald H. McCarty, Jr.

Reviewed by: Morgan V. Cantrell Review date: 5-9-88

Attachments: None

Comments (Cont'd)

6. The working faces in Areas 1B (putrescible) and 1AD (non-putrescible) were being operated in a very satisfactory manner.
7. No solid waste is currently being reclaimed under Permit No. 060-066P(Rm).

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County FULTON (ATLANTA)

Date JULY 20, 1988

Permit Number 060-010 D(S

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 90

Site Name SOUTHERN STATES – BOLTON ROAD

PROHIBITED ACTS **If any of the following exists or is indicated, SLR = 0. Check**

- ☐ Operating a disposal site without a permit. NOTE: if permit applicati has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0,15) **Check appropriate blocks and state rating** Rati

A*	U*		
☒	☐	Site being operated in accordance with permit and design and operational plan.	15

REQUIREMENTS **Check appropriate blocks and state individual rating**

		1. Unloading (0,4)	
☒	☐	a. restricted to the working face or immediate vicinity	4
☒	☐	b. waste easily incorporated into the working face	
		2. Spreading and Compaction (0,4)	
☒	☐	a. waste spread into uniform layers, (generally two feet thick)	4
☒	☐	b. waste compacted to smallest practical volume	
☒	☐	c. size of working face minimized	
		3. Daily Cover (0,15)	
☒	☐	a. compacted, clean earth, 6" thickness (minimum)	15
☒	☐	b. placed over waste at the end of each working day **NOTE:** In all cases waste must be covered with earth at least every 24 hours	
		4. Intermediate Cover (0,4)	
☒	☐	a. compacted, clean earth, one foot thickness (minimum)	4
☒	☐	b. placed over each portion of any intermediate lift/area following completion of that portion	
☐		c. none required at this time	
		5. Final Cover (0,4)	
☐	☒	a. compacted, clean earth, two feet thickness (minimum)	0
☐	☒	b. placed over final lift not later than one month following placement of waste within that lift	
☐		c. none required at this time	

E

A*	U*		
		6. Grading and Drainage (0,6)	
☒	☐	a. slope of disposal area sufficient to maximize runoff and minimize erosion	6
☒	☐	b. maintenance of ditches, swales, berms, terraces, trenches	
☒	☐	c. maintenance of drainage structures (downdrains, pipes, inlets, etc.)	
		7. Continuity of Operation (0,2)	
☒	☐	a. all weather access roads to disposal area	2
☒	☐	b. provisions for prompt equipment repair or replacement when needed	
		8. Environmental Protection	
		a. Air (0,4)	
☒	☐	1) dust control	4
☒	☐	2) maintenance of methane gas structures (if required)	
		b. Land (0,6)	
☒	☐	1) maintenance of eroded areas	0
☐	☒	2) finished areas vegetated or otherwise protected to prevent erosion	
☒	☐	3) disturbed areas, including soil stockpiles, vegetated to prevent erosion	
☐	☒	4) Maintenance of silt control structures (haybales, fabric fences, riprap, etc.)	
☒	☐	5) maintenance of ponds and basins (standpipes, emergency spillways, sediment removal, etc.)	
		c. Water (0,6)	
☒	☐	1) leachate control (includes collection and treatment if required)	6
☒	☐	2) water monitoring points clearly identified, accessible and in good condition	
☒	☐	3) water monitoring analysis current	
		9. Supervision (0,4)	
☒	☐	a. site under supervision of responsible individual	4
☒	☐	b. responsible individual at the disposal site at all times while site is operational	
		10. Limited Access (0,6)	
☒	☐	a. access limited to authorized entrances	6
☒	☐	b. authorized entrances closed when site is not in operation	
		11. Rubbish and Litter Control (0,4)	
☒	☐	a. exposed rubbish and debris (except in designated reclamation area)	4
☒	☐	b. litter control (fencing or other barriers, daily policing)	

A*	U*		
		12. Fire Protection and Stockpiled Soil (0,4)	
☒	☐	a.	soil placed near the working face to control fires or to be used for cover during periods of inclement weather
☒	☐	b.	other fire fighting methods provided
☒	☐	c.	soil stockpiles (overburden, fire control, cover) placed so as not to be a "cave-in" threat to open trenches
		13. Special Waste (0,4)	
☒	☐	a.	special provisions for immediate disposal of dead animals or highly putrescible waste (eggs, entrails, offal, etc.)
☒	☐	b.	provisions for handling asbestos or other waste requiring special handling
		Additional Stipulations	
☒	☐	14. informational and directional signs posted (0,2)	
☒	☐	15. site communications (telephone, two-way radio) (0,2)	
☒	☐	16. employee facility (toilet, drinking water, first aid kit)(0,2)	
☒	☐	17. control of vectors (0,2) if a vector problem exists or is indicated, check the appropriate vector:	

insects ☐ rodents ☐ birds ☐ animals ☐

Sanitary Landfill Rating (SLR)= 90 . SLR excluding prohibited acts ____. SLR must be 86 or higher to be an acceptable sanitary landfill.

A* denotes acceptable parameter.

U* denotes unacceptable parameter. (A single parameter for any requirement may be sufficient to preclude any score for that requirement.)

Comments:

1. I WAS ACCOMPANIED BY MORGAN V. CANTRELL, UNIT COORDINATOR, SOLID WASTE CONTROL UNIT, AND LEON WATKINS.
2. THE APPROVED D&O PLAN SPECIFIES DAILY COVER AS A REQUIREMENT IN THE DRY TRA DISPOSAL AREA.
3. MAINTAIN ALL SILT FENCING AROUND THE INLETS OF SURFACE DRAINS AS SHOWN ON D&O PLAN.
4. FINAL COVER WAS INSUFFICIENT ON THE SLOPE OF AREAS 1A & 1B ON NORTH FOR THE LAST CONSTRUCTED LIFT.
5. INSTALL THE SECURITY FENCE AND DRAINAGE FLUME ALONG THE WESTERN PROPE BOUNDARY. GRADE THE DRAINAGE FLUME AS SPECIFIED ON PAGE 6 OF 32 ON D& PLAN. INSTALL RIP RAP IN FLUME THE ENTIRE LENGTH AS REQUIRED BY PLA

RECLAMATION PERMIT NO. 060-066 P(RM)

6. AN AREA IN THE DRY TRASH DISPOSAL AREA WAS BEING USED FOR RECLAMATION THE CORRECT LOCATION FOR RECLAMATION ACTIVITIES IS SOUTH OF ACD AREA IN AREA
7. SOLID WASTE WAS DUMPED IN THE AREA FOR SORTING. PLEASE REVIEW NOTE B ON PAGE 3 OF SORTING OF SOLID WASTE IS NOT APPROVED.

E

Location of current operations:
Phase [1] Area/trench [1A] Lift [ ]

Time of inspection: 10:30 A.M. Weather conditions: SUNNY & HOT

Reasons for inspection: ☒ Routine ☐ Other _____

Discussed with:

	Name	Title	Address	Telephon
1)	LEON WATKINS	SITE SUPERVISOR	SOUTHERN STATES LANDFILL, INC., 4696 OAKDALE ROAD, SMYRNA, GA 30080	799-1273
2)				
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	RAYMOND CASH	PRESIDENT	SOUTHERN STATES LANDFILL, INC., 4696 OAKDALE ROAD, SMYNA, GA 30080	435-9962
2)	W. CEDRIC MADDOX	DIRECTOR	BUREAU OF SANITARY SERVICES, 1540 NORTHSIDE DRIVE, ATLANTA, GA 30318	351-0289
3)	M. DE VON BOGUE	DIRECTOR OF ENVIRONMENTAL HEALTH SERVICES	FULTON COUNTY HEALTH DEPARTMENT, 99 BUTLER ST., SE ATLANTA, GA 30303	572-2116
4)				

Photographs: ☐ Yes ☒ No: Total number ____: Location filed: _____

Inspected by: Donald H. McCarty, Jr.

Reviewed by: Morgan V. Cantrell Review date: 8-9-88

Attachments: NONE

Comments (Cont'd)

8. APPROVED ITEMS TO BE RECLAIMED INCLUDE CORRUGATED PAPER & WHITE GOODS (METAL APPLIANCES). ALUMINUM CANS AND SHREDDED WASTE PAPER WAS ALSO BEING RECLAIMED. AIR CURTAIN DESTRUCTOR, PERMIT NO. 060-067 P (INC)

9. A LARGE STOCKPILE OF WOOD WASTE WAS AVAILABLE FOR BURNING IN THE UNIT. PRIOR TO THE NEXT BURN, SEAL THE CRACK BETWEEN THE MANIFOLD AND THE GROUND AS REQUIRED BY THE APPROVED D & O PLAN.

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

August 10, 1988

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

On July 20, 1988, Mr. Morgan V. Cantrell and I were accompanied by Mr. Leon Watkins on an inspection of the subject solid waste disposal site along with the reclamation and air curtain destructor operations. Enclosed for your review is an evaluation report delineating my observations of the operating conditions during the visit.

The operations of the putrescible solid waste disposal area were satisfactory. The dry waste disposal area requires daily cover. This item is required on the approved design and operational plan. Please review the other comments in the evaluation report as improvements are made in the disposal operations.

Prev. noted in 4/28/88 inspect.

Of significance, the reclamation operations located in the dry waste disposal area are in violation of Permit No. 060-066P(Rm). Please correct the deficiencies in the location, sorting activity, and types of approved items to be reclaimed.

The air curtain destructor was inspected. Prior to the next burn, seal the space between the manifold and the ground.

If you have any questions regarding this report or desire technical assistance in solid waste handling, please feel free to call me at 404/656-2836.

Sincerely,

Morgan V. Cantrell

FOR Donald H. McCarty, Jr.
Environmental Specialist
Solid Waste Control Unit

DHMc:sf
Enclosure: Evaluation Report dated 7/20/88
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

Tull(SWR) Auston Co. – Southern State Landfill Inc, Bolton Rd CSF

SOUTHERN STATES LANDFILL, INC.
4696 OAKDALE ROAD
SMYRNA, GA 30080
435-9962

August 26, 1988

Mr. W. Cedric Maddox, Director
Bureau of Sanitary Services
CITY OF ATLANTA
1540 Northside Drive N. W.
Atlanta, GA 30318

Dear Mr. Maddox:

Southern States appreciates the extension to the deadline of August 15, 1988, that was in your letter of July 15, 1988. This extension of deadline until August 31, was graciously given by Ms. Patricia Walton of your department.

Please be advised that we have retained Mr. Tyrone Williams of Williams, Russell & Johnson, Engineers, to submit to the city an amended operational plan in regards to your concerns with our disposing of asbestos. Mr. Tyrone Williams did the engineering in the D & O plan that we are now permitted under by both the City of Atlanta and the State of Georgia. Mr. Williams and Mr. Goodley, of your department, have a scheduled meeting on September 1, 1988, at Mr. Goodley's office.

Subsequent to their meeting, Southern States assures the City of Atlanta that it will promptly allay any concerns that the city may have in regard to this matter.

Perhaps an appropriate amendment to the narration in items 29 and 30 in our D & O plan can be formulated that will address the ambiguities we have experienced in receiving instructions from the city and state agencies that are different as it relates to the disposal of asbestos.

Again, we at Southern States Landfill are committed to bring this to the complete satisfaction of the Department of Sanitation of the City of Atlanta.

Sincerely,

Raymond M. Cash

RMC:kcc

RECEIVED
1988
Solid Waste
Management Program

cc: Chester J. Funnye', P. E., Commissioner
K. C. Marks, III, Deputy Director, BSS
Claude W. Goodley, Jr., Disposal Manager, BSS
James Dunbar, Solid Waste Program Manager, EPD

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County FULTON (ATLANTA)

Date OCTOBER 27, 1988

Permit Number 060-010D(SL)

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 86

Site Name SOUTHERN STATES - BOLTON ROAD

PROHIBITED ACTS **If any of the following exists or is indicated, SLR = 0. Check**

- ☐ Operating a disposal site without a permit. NOTE: if permit applicatio has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0,15) **Check appropriate blocks and state rating**

A*	U*		Rating
☒	☐	Site being operated in accordance with permit and design and operational plan.	15

REQUIREMENTS **Check appropriate blocks and state individual rating**

A*	U*		Rating
		1. Unloading (0,4)	
☒	☐	a. restricted to the working face or immediate vicinity	4
☒	☐	b. waste easily incorporated into the working face	
		2. Spreading and Compaction (0,4)	
☒	☐	a. waste spread into uniform layers, (generally two feet thick)	4
☒	☐	b. waste compacted to smallest practical volume	
☒	☐	c. size of working face minimized	
		3. Daily Cover (0,15)	
☒	☐	a. compacted, clean earth, 6" thickness (minimum)	15
☒	☐	b. placed over waste at the end of each working day **NOTE:** In all cases waste must be covered with earth at least every 24 hours	
		4. Intermediate Cover (0,4)	
☒	☐	a. compacted, clean earth, one foot thickness (minimum)	4
☒	☐	b. placed over each portion of any intermediate lift/area following completion of that portion	
☐		c. none required at this time	
		5. Final Cover (0,4)	
☐	☒	a. compacted, clean earth, two feet thickness (minimum)	0
☐	☒	b. placed over final lift not later than one month following placement of waste within that lift	
☐		c. none required at this time	

A*	U*		
		6. Grading and Drainage (0,6)	
☒	☐	a. slope of disposal area sufficient to maximize runoff and minimize erosion	
☒	☐	b. maintenance of ditches, swales, berms, terraces, trenches	
☒	☐	c. maintenance of drainage structures (downdrains, pipes, inlets, etc.)	
		7. Continuity of Operation (0,2)	
☒	☐	a. all weather access roads to disposal area	2
☒	☐	b. provisions for prompt equipment repair or replacement when needed	
		8. Environmental Protection	
		a. Air (0,4)	
☒	☐	1) dust control	4
☒	☐	2) maintenance of methane gas structures (if required)	
		b. Land (0,6)	
☒	☐	1) maintenance of eroded areas	0
☐	☒	2) finished areas vegetated or otherwise protected to prevent erosion	
☒	☐	3) disturbed areas, including soil stockpiles, vegetated to prevent erosion	
☐	☒	4) Maintenance of silt control structures (haybales, fabric fences, riprap, etc.)	
☒	☐	5) maintenance of ponds and basins (standpipes, emergency spillways, sediment removal, etc.)	
		c. Water (0,6)	
☒	☐	1) leachate control (includes collection and treatment if required)	6
☒	☐	2) water monitoring points clearly identified, accessible and in good condition	
☒	☐	3) water monitoring analysis current	
		9. Supervision (0,4)	
☒	☐	a. site under supervision of responsible individual	4
☒	☐	b. responsible individual at the disposal site at all times while site is operational	
		10. Limited Access (0,6)	
☒	☐	a. access limited to authorized entrances	6
☒	☐	b. authorized entrances closed when site is not in operation	
		11. Rubbish and Litter Control (0,4)	
☒	☐	a. exposed rubbish and debris (except in designated reclamation area)	0
☐	☒	b. litter control (fencing or other barriers, daily policing)	

A*	U*		
		12. Fire Protection and Stockpiled Soil (0,4)	
☒	☐	a. soil placed near the working face to control fires or to be used for cover during periods of inclement weather	4
☒	☐	b. other fire fighting methods provided	
☒	☐	c. soil stockpiles (overburden, fire control, cover) placed so as not to be a "cave-in" threat to open trenches	
		13. Special Waste (0,4)	
☒	☐	a. special provisions for immediate disposal of dead animals or highly putrescible waste (eggs, entrails, offal, etc.)	4
☒	☐	b. provisions for handling asbestos or other waste requiring special handling	
		Additional Stipulations	
☒	☐	14. informational and directional signs posted (0,2)	2
☒	☐	15. site communications (telephone, two-way radio) (0,2)	2
☒	☐	16. employee facility (toilet, drinking water, first aid kit)(0,2)	2
☒	☐	17. control of vectors (0,2) if a vector problem exists or is indicated, check the appropriate vector:	2
		insects ☐ rodents ☐ birds ☐ animals ☐	

Sanitary Landfill Rating (SLR)= 86. SLR excluding prohibited acts ____.
SLR must be 86 or higher to be an acceptable sanitary landfill.

A* denotes acceptable parameter.

U* denotes unacceptable parameter. (A single parameter for any requirement may be sufficient to preclude any score for that requirement.)

Comments:

I WAS ACCOMPANIED BY MORGAN V. CANTRELL, UNIT COORDINATOR, SOLID WASTE CONTROL UNIT, AND LEON WATKINS.

THE FINAL LIFT IS BEING COMPLETED IN AREA 1AD (DRY TRASH AREA).

APPLY FINAL COVER AND GRASSING TO COMPLETED SLOPES NOW.

INSTALL DOWNDRAINS AS LIFTS ARE COMPLETED.

SILT FENCING NEEDS TO BE REPAIRED OR REPLACED.

INSTALL THE SECURITY FENCE AND DRAINAGE FLUME ALONG THE WESTERN PROPERTY BOUNDARY IN COMPLIANCE WITH THE APPROVED DESIGN AND OPERATIONAL (D&O) PLAN. SEE PAGE 6 OF 32.

POLICE THE ENTIRE SITE FOR LITTER.

REQUIRE COLLECTION VEHICLES TO UNLOAD CLOSER TO THE WORKING FACE IN THE PUTRESCIBLE WASTE DISPOSAL AREA.

RECLAMATION PERMIT No. 060-066 P (RM)

RECLAMATION OF SOLID WASTE WAS NOT OBSERVED DURING THIS VISIT.

OVER)

Location of current operations:
Phase [1] Area/trench [1B] Lift [4]

Time of inspection: 12:55 P.M. Weather conditions: SUNNY & MILD

Reasons for inspection: ☒ Routine ☐ Other _____

Discussed with:

	Name	Title	Address	Telephon
1)	LEON WATKINS	SITE SUPERVISOR	SOUTHERN STATES LANDFILL, INC., 4696 OAKDALE ROAD, SMYRNA, GA 30080	799-127
2)				
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	RAYMOND CASH	PRESIDENT	SOUTHERN STATES LANDFILL, INC. 4696 OAKDALE ROAD, SMYRNA, GA 30080	435-9962
2)	W. CEDRIC MADDOX	DIRECTOR	BUREAU OF SANITARY SERVICES, 1540 NORTHSIDE DRIVE, ATLANTA, GA 30318	351-02[illegible]
3)	M. DE VON BOGUE	DIRECTOR OF ENVIRONMENTAL HEALTH SERVICES	FULTON COUNTY HEALTH DEPARTMENT, 99 BUTLER ST., SE, ATLANTA, GA 3030[illegible]	572-2116
4)				

Photographs: ☒ Yes ☐ No: Total number 1 : Location filed: ATLANTA FILM FILE

Inspected by: Donald H. McCarty, Jr.

Reviewed by: Morgan V. Cantrell Review date: 11-7-88

Attachments: NONE

Comments (Cont'd)

AIR CURTAIN DESTRUCTOR, PERMIT NO. 060-067 P (INC)

1. THE AIR CURTAIN DESTRUCTOR PIT HAD BEEN CHARGED TOO FULL OF SOLID WASTE. THE BURN WAS UNSATISFACTORY, THUS CREATING EXCESSIVE DISCHARGE OF SMOKE FROM THE UNIT.

FULTON CO. (ATLANTA)
SOUTHERN STATES - BOLTON ROAD

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

November 3, 1988

NOTICE OF VIOLATION

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Operational Violation of the Air Curtain Destructor;
Permit No. 060-067P(Inc)

Dear Mr. Cash:

I have reviewed the October 27, 1988 Evaluation Report for the Southern States-Bolton Road Sanitary Landfill, filed by Mr. Donald H. McCarty, Jr., of my staff. It was reported that the Air Curtain Destructor was discharging excessive smoke during this visit due to overcharging of the pit with solid waste. Mr. McCarty has further advised me that the discharge of smoke dissipated when the blower was increased in speed by the operator.

This is to advise you that the Air Curtain Destructor must be operated in a manner which complies with the approved Design and Operational Plan and Permit Conditions. Our office will not allow this unit to operate, unless the blower speed is optimized and the pit is charged properly. You must minimize visible emissions from this unit's operation.

If you have any questions, please advise.

Sincerely,

James W. Dunbar
Program Manager
Solid Waste Management Program

JWD:dm/sf
c: John D. Taylor, Jr.
W. Cedric Maddox
M. DeVon Bogue
File

FULTON Co. (ATLANTA)
SOUTHERN STATES -- BOLTON ROAD

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

November 4, 1988

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

On October 27, 1988, Mr. Morgan V. Cantrell and I were accompanied by Mr. Leon Watkins on an inspection of the subject solid waste disposal site along with the reclamation and air curtain destructor operations. Enclosed for your review is an evaluation report delineating my observations of the operating conditions during the visit.

Overall, the disposal operations were satisfactory. Water monitoring data is due now. Please correct the noted deficiencies of the disposal operations indicated in the comments of the report.

We found the air curtain destructor to be overcharged with solid waste, causing the burn to be ineffective. Please correct this violation immediately.

If you have any questions regarding this report or desire technical assistance in solid waste handling, please feel free to call me at 404/656-2836.

Sincerely,

Donald H. McCarty, Jr.

Donald H. McCarty, Jr.
Environmental Specialist
Solid Waste Control Unit

DHMc:sf
Enclosure: Evaluation Report dated 10/27/88
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File ✓

:orgia Department of Natural Resources
.05 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County FULTON (ATLANTA)

Date JANUARY 27, 1989

Permit Number 060-010D(S

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 73

Site Name SOUTHERN STATES - BOLTON ROAD

PROHIBITED ACTS **If any of the following exists or is indicated, SLR = 0. Check**

- ☐ Operating a disposal site without a permit. NOTE: if permit applicatic has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0,15) **Check appropriate blocks and state rating** — Ratir 15

A*	U*	
☒	☐	Site being operated in accordance with permit and design and operational plan.

REQUIREMENTS **Check appropriate blocks and state individual rating**

A*	U*		
		1. Unloading (0,4)	
☐	☒	a. restricted to the working face or immediate vicinity	0
☒	☐	b. waste easily incorporated into the working face	
		2. Spreading and Compaction (0,4)	
☒	☐	a. waste spread into uniform layers, (generally two feet thick)	4
☒	☐	b. waste compacted to smallest practical volume	
☒	☐	c. size of working face minimized	
		3. Daily Cover (0,15)	
☐	☒	a. compacted, clean earth, 6" thickness (minimum)	0
☐	☒	b. placed over waste at the end of each working day NOTE: In all cases waste must be covered with earth at least every 24 hours	
		4. Intermediate Cover (0,4)	
☒	☐	a. compacted, clean earth, one foot thickness (minimum)	4
☒	☐	b. placed over each portion of any intermediate lift/area following completion of that portion	
☐		c. none required at this time	
		5. Final Cover (0,4)	
☒	☐	a. compacted, clean earth, two feet thickness (minimum)	4
☒	☐	b. placed over final lift not later than one month following placement of waste within that lift	
☐		c. none required at this time	

A*	U*		
		6. Grading and Drainage (0,6)	
☒	☐	a. slope of disposal area sufficient to maximize runoff and minimize erosion	
☒	☐	b. maintenance of ditches, swales, berms, terraces, trenches	
☒	☐	c. maintenance of drainage structures (downdrains, pipes, inlets, etc.)	
		7. Continuity of Operation (0,2)	
☒	☐	a. all weather access roads to disposal area	0
☐	☒	b. provisions for prompt equipment repair or replacement when needed	
		8. Environmental Protection	
		a. Air (0,4)	
☒	☐	1) dust control	4
☒	☐	2) maintenance of methane gas structures (if required)	
		b. Land (0,6)	
☒	☐	1) maintenance of eroded areas	6
☒	☐	2) finished areas vegetated or otherwise protected to prevent erosion	
☒	☐	3) disturbed areas, including soil stockpiles, vegetated to prevent erosion	
☒	☐	4) Maintenance of silt control structures (haybales, fabric fences, riprap, etc.)	
☒	☐	5) maintenance of ponds and basins (standpipes, emergency spillways, sediment removal, etc.)	
		c. Water (0,6)	
☒	☐	1) leachate control (includes collection and treatment if required)	6
☒	☐	2) water monitoring points clearly identified, accessible and in good condition	
☒	☐	3) water monitoring analysis current	
		9. Supervision (0,4)	
☒	☐	a. site under supervision of responsible individual	4
☒	☐	b. responsible individual at the disposal site at all times while site is operational	
		10. Limited Access (0,6)	
☒	☐	a. access limited to authorized entrances	6
☒	☐	b. authorized entrances closed when site is not in operation	
		11. Rubbish and Litter Control (0,4)	
☒	☐	a. exposed rubbish and debris (except in designated reclamation area)	0
☐	☒	b. litter control (fencing or other barriers, daily policing)	

A*	U*		
		12. Fire Protection and Stockpiled Soil (0,4)	
☒	☐	a. soil placed near the working face to control fires or to be used for cover during periods of inclement weather	
☒	☐	b. other fire fighting methods provided	
☒	☐	c. soil stockpiles (overburden, fire control, cover) placed so as not to be a "cave-in" threat to open trenches	
		13. Special Waste (0,4)	
☒	☐	a. special provisions for immediate disposal of dead animals or highly putrescible waste (eggs, entrails, offal, etc.)	
☒	☐	b. provisions for handling asbestos or other waste requiring special handling	
		Additional Stipulations	
☒	☐	14. informational and directional signs posted (0,2)	
☒	☐	15. site communications (telephone, two-way radio) (0,2)	
☒	☐	16. employee facility (toilet, drinking water, first aid kit)(0,2)	
☐	☒	17. control of vectors (0,2) if a vector problem exists or is indicated, check the appropriate vector:	

insects ☐ rodents ☐ birds ☒ animals ☐

Sanitary Landfill Rating (SLR)= 73 . SLR excluding prohibited acts ____.
SLR must be 86 or higher to be an acceptable sanitary landfill.

A* denotes acceptable parameter.

U* denotes unacceptable parameter. (A single parameter for any requirement may be sufficient to preclude any score for that requirement.)

Comments:

1. I WAS ACCOMPANIED BY MORGAN V. CANTRELL, UNIT COORDINATOR, SOLID WASTE CONTROL UNIT, ERIC CASH AND JOE MILLS.
2. EQUIPMENT DOWNTIME HAS HAMPERED DAILY COVER OPERATIONS. THE SITE HAS HAD ONE (1) PULL PAN FOR MOVING EARTH DURING THIS PAST WEEK. THE DRY TRASH DISPOSAL AREA (1AD) REQUIRES DAILY COVER, ALSO. MUCH OF THIS AREA HAD EXPOSED SOLID WASTE.
3. GARBAGE WAS OBSERVED UNLOADED FOR DISPOSAL IN THE DRY TRASH DISPOSAL AREA (1AD). A FLOCK OF BIRDS WERE OBSERVED ON THE SITE.
4. THE ENTIRE SITE MUST BE POLICED FOR LITTER.
5. INSTALL THE SECURITY FENCE AND DRAINAGE FLUME ALONG THE WESTERN PROPERTY BOUNDARY AS REQUIRED BY THE APPROVED DESIGN AND OPERATI (D&O) PLAN. SEE PAGE 6 OF 32.
6. ELEVATION MARKERS MUST BE ERECTED FOR REFERENCE.

RECLAMATION PERMIT No. 060-066 P(Rm)

7. PLASTIC BUCKETS WERE OBSERVED BEING STORED IN A ROLL OFF CONTAINER

(OVER)

Location of current operations:
Phase [1] Area/trench [1B] Lift [ ]

Time of inspection: 1:30 P.M. Weather conditions: SUNNY & Co

Reasons for inspection: ☒ Routine ☐ Other _____

Discussed with:

	Name	Title	Address	Telephor
1)	ERIC CASH	VICE PRESIDENT, SOUTHERN STATES LANDFILL, INC.,	4696 OAKDALE ROAD, SMYRNA, GA 30080	435-996
2)	JOE MILLS	SITE SUPERVISOR,	(SAME ADDRESS)	799-1273
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephon
1)	RAYMOND CASH	PRESIDENT, SOUTHERN STATES LANDFILL, INC.,	4696 OAKDALE ROAD, SMYRNA, GA 30080	435-9962
2)	W. CEDRIC MADDOX	DIRECTOR, BUREAU OF SANITARY SERVICES,	1540 NORTHSIDE DRIVE, ATLANTA, GA 30318	351-021
3)	M. DE VON BOGUE	DIRECTOR OF ENVIRONMENTAL HEALTH SERVICES,	FULTON COUNTY HEALTH DEPARTMENT, 99 BUTLER ST., SE, ATLANTA, GA 303C	572-2116
4)				

Photographs: ☐ Yes ☒ No; Total number _____: Location filed: _____

Inspected by: Edward H. McCarty, Jr.

Reviewed by: Morgan V. Caudell Review date: 2-7-89

Attachments: NONE

Comments (Cont'd)

IN THE DRY TRASH AREA (1AD). THE BUCKETS ARE BEING RECLAIMED BY PICKIN THROUGH THE WORKING FACE IN THIS AREA. THIS METHOD OF RECLAMATION IS UNACCEPTABLE.

8. ALL RECLAMATION MUST BE STOPPED UNTIL THE WASTE RECLAMATION FACILITY HAS BEEN CONSTRUCTED IN ACCORD WITH THE PLAN APPROVED JANUARY 12, 19. AIR CURTAIN DESTRUCTOR, PERMIT NO. 060-067 P (INC)

9. THE AIR CURTAIN DESTRUCTOR WAS NOT BEING USED. ASHES ARE TO BE REMOVED FROM THE PIT SOON.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County FULTON (ATLANTA)

Date APRIL 4, 1989

Permit Number 060-010D(SL)

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 69

Site Name SOUTHERN STATES – BOLTON ROAD

PROHIBITED ACTS If any of the following exists or is indicated, SLR = 0. Check

- ☐ Operating a disposal site without a permit. NOTE: if permit applicatio has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scaveng[illegible]
- ☒ None o[illegible] by existing conditions

PERMITS (0,15) [illegible] rating — Rating: 15

A* U*

☒ ☐ Site be[illegible] mit and design and operati[illegible]

REQUIREMENTS Ch[illegible] dividual rating

1. Unlo[illegible]

☒ ☐ a. [illegible] mediate vicinity — 4

☒ ☐ b. w[illegible] orking face

2. Sprea[illegible]

☒ ☐ a. w[illegible] enerally two feet t[illegible] — 4

☒ ☐ b. w[illegible] smallest practical volume

☒ ☐ c. size of working face minimized

3. Daily Cover (0,15)

☐ ☒ a. compacted, clean earth, 6" thickness (minimum) — 0

☐ ☒ b. placed over waste at the end of each working day
NOTE: In all cases waste must be covered with earth at least every 24 hours

4. Intermediate Cover (0,4) — 0

☐ ☒ a. compacted, clean earth, one foot thickness (minimum)

☐ ☒ b. placed over each portion of any intermediate lift/area following completion of that portion

☐ c. none required at this time

5. Final Cover (0,4) — 4

☒ ☐ a. compacted, clean earth, two feet thickness (minimum)

☒ ☐ b. placed over final lift not later than one month following placement of waste within that lift

☐ c. none required at this time

Revised 8/86

A*	U*		
		6. Grading and Drainage (0,6)	
☒	☐	a. slope of disposal area sufficient to maximize runoff and minimize erosion	
☒	☐	b. maintenance of ditches, swales, berms, terraces, trenches	
☒	☐	c. maintenance of drainage structures (downdrains, pipes, inlets, etc.)	
		7. Continuity of Operation (0,2)	
☒	☐	a. all weather access roads to disposal area	0
☐	☒	b. provisions for prompt equipment repair or replacement when needed	
		8. Environmental Protection	
		a. Air (0,4)	
☒	☐	1) dust control	4
☒	☐	2) maintenance of methane gas structures (if required)	
		b. Land (0,6)	
☒	☐	1) maintenance of eroded areas	0
☐	☒	2) finished areas vegetated or otherwise protected to prevent erosion	
☒	☐	3) disturbed areas, including soil stockpiles, vegetated to prevent erosion	
☒	☐	4) Maintenance of silt control structures (haybales, fabric fences, riprap, etc.)	
☒	☐	5) maintenance of ponds and basins (standpipes, emergency spillways, sediment removal, etc.)	
		c. Water (0,6)	
☒	☐	1) leachate control (includes collection and treatment if required)	6
☒	☐	2) water monitoring points clearly identified, accessible and in good condition	
☒	☐	3) water monitoring analysis current	
		9. Supervision (0,4)	
☒	☐	a. site under supervision of responsible individual	4
☒	☐	b. responsible individual at the disposal site at all times while site is operational	
		10. Limited Access (0,6)	
☒	☐	a. access limited to authorized entrances	6
☒	☐	b. authorized entrances closed when site is not in operation	
		11. Rubbish and Litter Control (0,4)	
☒	☐	a. exposed rubbish and debris (except in designated reclamation area)	4
☒	☐	b. litter control (fencing or other barriers, daily policing)	

A*	U*		
		12. Fire Protection and Stockpiled Soil (0,4)	0
☐	☒	a. soil placed near the working face to control fires or to be used for cover during periods of inclement weather	
☒	☐	b. other fire fighting methods provided	
☒	☐	c. soil stockpiles (overburden, fire control, cover) placed so as not to be a "cave-in" threat to open trenches	
		13. Special Waste (0,4)	4
☒	☐	a. special provisions for immediate disposal of dead animals or highly putrescible waste (eggs, entrails, offal, etc.)	
☒	☐	b. provisions for handling asbestos or other waste requiring special handling	
		Additional Stipulations	
☒	☐	14. informational and directional signs posted (0,2)	2
☒	☐	15. site communications (telephone, two-way radio) (0,2)	2
☒	☐	16. employee facility (toilet, drinking water, first aid kit)(0,2)	2
☒	☐	17. control of vectors (0,2) if a vector problem exists or is indicated, check the appropriate vector:	2
		insects ☐ rodents ☐ birds ☐ animals ☐	

Sanitary Landfill Rating (SLR)= 69. SLR excluding prohibited acts ____.
SLR must be 86 or higher to be an acceptable sanitary landfill.

A* denotes acceptable parameter.

U* denotes unacceptable parameter. (A single parameter for any requirement may be sufficient to preclude any score for that requirement.)

Comments:

I WAS ACCOMPANIED BY MR. MORGAN V. CANTRELL, UNIT COORDINATOR, SOLID WASTE CONTROL UNIT, AND MR. JOE MILLS.

2. AGAIN, THE LARGE PAN WAS NOT OPERATIONAL. THE ONE PULL PAN WAS THE ONLY PIECE OF EQUIPMENT BEING USED TO HAUL DIRT FOR COVERING SOLID WASTE.
. DAILY COVER IS INADEQUATE OVER A LARGE AREA OF AREA 1B. A MINIMUM OF 6 INCHES OVER ALL SOLID WASTE HAD NOT BEEN APPLIED, RESULTING IN SOLID WASTE PROTRUDING THROUGH THE EARTH COVER. ONE (1) FOOT OF ADDITIONAL EARTH MUST BE APPLIED TO SATISFY THE INTERMEDIATE COVER REQUIREMENT, ALSO.
EARTH STOCKPILES WERE NOT BEING ADEQUATELY MAINTAINED NEAR THE WORKING FACE IN AREA 1B AND AREA 1AD.
BIDS ARE BEING SECURED FOR CONSTRUCTION OF THE SECURITY FENCE ALONG THE WESTERN PROPERTY BOUNDARY.
GRASSING MUST BE DONE ON THE SLOPES OF AREA 1AD AND AREA 1A.

RECLAMATION PERMIT NO. 060-066 P(Rm)

FACILITY CONSTRUCTION IS BEGINNING ON AREA 1AD, INCLUDING POURING OF

Location of current operations:
Phase [1] Area/trench [1B] Lift [ ]

Time of inspection: 1:30 P.M. Weather conditions: Ptly. Sunny & 4

Reasons for inspection: ☒ Routine ☐ Other _____

Discussed with:

	Name	Title	Address	Telephone
1)	Joe Mills	Site Supervisor	Southern States Landfill, Inc., 4696 Oakdale Road, Smyrna, GA 30080	799-1273
2)				
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	Raymond Cash	President, Southern States Landfill, Inc.,	4696 Oakdale Road, Smyrna, GA 30080	435-9963
2)	W. Cedric Maddox	Director, Bureau of Sanitary Services,	55 Trinity Avenue, SW, Suite 4800, Atlanta, GA 30335-0326	330-6250
3)	M. De Von Bogue	Director, Environmental Health Services,	Fulton County Health Department, 99 Butler St., SE, Atlanta, GA 30303	572-2116
4)				

Photographs: ☐ Yes ☒ No: Total number ____: Location filed: _____

Inspected by: Donald H. McCarty, Jr.

Reviewed by: Morgan V. Cantrell Review date: 4-11-89

Attachments: None

Comments (Cont'd)

CONCRETE PAD, ERECTING AN EARTHERN BERM WIND BREAK, AN A ROLL-OFF CONTAINER DUMP RAMP FOR SMALL VEHICLE USE.

8. RECLAMATION IS CURRENTLY INACTIVE.

AIR CURTAIN DESTRUCTOR, PERMIT No. 060-067 P (INC)

9. WOOD WASTE WAS BEING APPROPRIATELY STOCKPILED FOR A FUTURE BURN AT THIS UNIT. THE UNIT WAS NOT BEING OPERATED DURING VISIT.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

E

County FULTON (ATLANTA)

Date APRIL 28, 1989

Permit Number 060-010D(SL)

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 88

Site Name SOUTHERN STATES – BOLTON ROAD

PROHIBITED ACTS **If any of the following exists or is indicated, SLR = 0. Check**

- ☐ Operating a disposal site without a permit. NOTE: if permit applicatio has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0,15) **Check appropriate blocks and state rating** — Ratin: 15

A*	U*	
☒	☐	Site being operated in accordance with permit and design and operational plan.

REQUIREMENTS **Check appropriate blocks and state individual rating**

1. Unloading (0,4) — 4

☒	☐	a. restricted to the working face or immediate vicinity
☒	☐	b. waste easily incorporated into the working face

2. Spreading and Compaction (0,4) — 4

☒	☐	a. waste spread into uniform layers, (generally two feet thick)
☒	☐	b. waste compacted to smallest practical volume
☒	☐	c. size of working face minimized

3. Daily Cover (0,15) — 15

☒	☐	a. compacted, clean earth, 6" thickness (minimum)
☒	☐	b. placed over waste at the end of each working day **NOTE:** In all cases waste must be covered with earth at least every 24 hours

4. Intermediate Cover (0,4) — 4

☒	☐	a. compacted, clean earth, one foot thickness (minimum)
☒	☐	b. placed over each portion of any intermediate lift/area following completion of that portion
☐		c. none required at this time

5. Final Cover (0,4) — 4

☒	☐	a. compacted, clean earth, two feet thickness (minimum)
☒	☐	b. placed over final lift not later than one month following placement of waste within that lift
☐		c. none required at this time

(5-)

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

May 10, 1989

TRIP REPORT

SITE NAME AND LOCATION: Fulton County - Southern States, Bolton Rd. Sanitary Landfill; Atlanta

TRIP BY: Barbara R. Howard, P.E., Environmental Engineer BRH

Accompanied by: None

DATE OF TRIP: May 5, 1989

OFFICIALS CONTACTED: Leon Watkins, Site Superintendent
Southern States Landfill, Inc.

Damon R. Riggs, Consultant, Project Engineer
Tribble & Richardson, Inc.

REFERENCE: Receipt of request on April 27, 1989 to relocate ACD.

COMMENTS:
1. The proposed location for the ACD is in an off-site borrow. This area has not been permitted by the city or EPD for use as a borrow.
2. On the proposed location, there exists an area 500 ft. from residences which can be approved for ACD operations.

CONCLUSIONS:
1. The borrow area can be permitted by EPD as a modification to the site plan and the ACD relocation approved in this plan or Southern States Landfill Inc. can apply for an ACD permit.

RECOMMENDATIONS AND FOLLOW-UP REQUIRED: None; await request for modification or ACD permit application.

PHOTOGRAPHS: None

REVIEWED BY: Harold C. Reheis

ATTACHMENTS: None

BRH:rg

c: Morgan V. Cantrell

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

June 16, 1989

Mr. Eric W. Cash
Vice President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Fulton Co. - Southern States Bolton Road Sanitary Landfill
Solid Waste Handling Permit 060-066P(Rm)

Dear Mr. Cash:

I am in receipt of your letter dated June 1, 1989, requesting a modificaiton to the permit and Design and Operational (D & O) Plan for the reclamation operation. The approved D & O Plan states: "At the close of business each day, all non-reclaimable material will be removed from the reclamation area and disposed." You have requested this requirement be changed to read: "... cover the concrete pad each day with a mesh tarp."

The proposed scenario of covering the solid waste is not consistent with good solid waste handling practices. The excessive amount of solid waste remaining on the pad at the end of the day makes it apparent that more solid waste is being allowed in the reclamation area than can be properly handled. This proposed modification is hereby denied.

If you have any questions, please advise.

Sincerely,

James W. Dunbar
Program Manager
Solid Waste Management Program

JWD:dmf
c: John D. Taylor, Jr.
Raymond M. Cash
File

Fulton (Atlanta)
Sou. States - Bolton Rd.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

May 3, 1989

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States-Bolton Road Sanitary Landfill

Dear Mr. Cash:

On April 28, 1989, an inspection was conducted of the subject solid waste disposal site. Enclosed for your review is a copy of the evaluation report which includes comments regarding the reclamation and air curtain destructor operations.

Improvements have been made to bring this site back into compliance. We look forward to the continuation of operational improvements. Please reference the comments in the evaluation report which denote deficiencies.

If you have any questions or desire technical assistance in solid waste management, please call me at 404/656-2836.

Sincerely,

Donald H. McCarty, Jr.
Environmental Specialist
Solid Waste Control Unit

DHMc:rg
Enclsoure: Evaluation report dated 4/28/89
c: James W. Dunbar
W. Cedric Maddox
M. De Von Bogue
File ✓

Fulton (Atlanta)
Sou. States - Bolton Rd.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

May 10, 1989

TRIP REPORT

SITE NAME AND LOCATION: Fulton County - Southern States, Bolton Rd. Sanitary Landfill; Atlanta

TRIP BY: Barbara R. Howard, P.E., Environmental Engineer BRH

Accompanied by: None

DATE OF TRIP: May 5, 1989

OFFICIALS CONTACTED: Leon Watkins, Site Superintendent
Southern States Landfill, Inc.

Damon R. Riggs, Consultant, Project Engineer
Tribble & Richardson, Inc.

EFERENCE: Receipt of request on April 27, 1989 to relocate ACD.

OMMENTS:
1. The proposed location for the ACD is in an off-site borrow. This area has not been permitted by the city or EPD for use as a borrow.
2. On the proposed location, there exists an area 500 ft. from residences which can be approved for ACD operations.

NCLUSIONS:
1. The borrow area can be permitted by EPD as a modification to the site plan and the ACD relocation approved in this plan or Southern States Landfill Inc. can apply for an ACD permit.

OMMENDATIONS AND FOLLOW-UP REQUIRED: None; await request for modification or ACD permit application.

TOGRAPHS: None

EWED BY: Harold C. Reheis

CHMENTS: None

g

organ V. Cantrell

file(sw) Fulton Co. - Southern States, Bolton Rd. (S.)

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

May 10, 1989

TRIP REPORT

SITE NAME AND LOCATION: Fulton County - Southern States, Bolton Rd. Sanitary Landfill; Atlanta

TRIP BY: Barbara R. Howard, P.E., Environmental Engineer BRH

Accompanied by: None

DATE OF TRIP: May 5, 1989

OFFICIALS CONTACTED: Leon Watkins, Site Superintendent
Southern States Landfill, Inc.

Damon R. Riggs, Consultant, Project Engineer
Tribble & Richardson, Inc.

REFERENCE: Receipt of request on April 27, 1989 to relocate ACD.

COMMENTS:
1. The proposed location for the ACD is in an off-site borrow. This area has not been permitted by the city or EPD for use as a borrow.
2. On the proposed location, there exists an area 500 ft. from residences which can be approved for ACD operations.

CONCLUSIONS:
1. The borrow area can be permitted by EPD as a modification to the site plan and the ACD relocation approved in this plan or Southern States Landfill Inc. can apply for an ACD permit.

RECOMMENDATIONS AND FOLLOW-UP REQUIRED: None; await request for modification or ACD permit application.

PHOTOGRAPHS: None

REVIEWED BY: Harold C. Reheis

ATTACHMENTS: None

BRH:rg

c: Morgan V. Cantrell

Sou. States - Bolton Rd.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J Leonard Ledbetter Commissioner
Harold F Reheis Assistant Director
Environmental Protection Division

July 5, 1989

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

SUBJECT: **Notice of Violation**
Evaluation of the Southern States-Bolton Road Sanitary Landfill

Dear Mr. Cash:

On June 23, 1989, an inspection of the subject solid waste disposal site was conducted. Enclosed for your review is a copy of the evaluation report.

As you will note, the overall conditions of the site placed the operation out of compliance with the Rules for Solid Waste Management. Violations included daily cover, grading and drainage, silt control, and leachate control.

A follow-up visit was made on June 27, 1989, to observe improvement in the site's operation. Based on my observations, the daily cover, leachate control, and some of the drainage violations were corrected. As improvements are continued, please reference the comments listed in the evaluation report.

If you have any questions or desire technical assistance in solid waste management, please call (404)656-2836.

Sincerely,

Donald H. McCarty, Jr.
Environmental Specialist
Solid Waste Control Unit

DHMc:bc
Enclosure: Evaluation Report dated 6/23/89
cc: James W. Dunbar
W. Cedric Maddox
M. De Von Bogue
Michael Mull
File

FULTON COUNTY
SOUTHERN STATES – BOLTON RD

SOUTHERN STATES LANDFILL, INC.

4696 OAKDALE ROAD
SMYRNA, GA 30080
435-9962

July 18, 1989

Mr. Donald H. McCarthy, Jr.
Environmental Specialist
Georgia Department of Natural Resources
205 Butler Street, S.E.
Floyd Towers East
Atlanta, Georgia 30334

Dear Mr. McCarthy:

As per your letter regarding the inspection and re-inspection of our Bolton Road facility on June 27, 1989, we would like to make the following comments:

1. We have taken steps to correct odors experienced in the Southeast corner of the site. Leachate flow has been corrected.

2. Rip rap and new silt fence have been placed at all downdraines as specified on the Design & Operational Plan. The downdrain pipe located in the corner of the Reclamation area has been directed to the drop inlet drain leading to the silt pond.

3. The Reclamation area is active only as weather permits. On the approved Operational plan, all waste and non-recyclable material will be removed daily, and all recyclable material will be removed on a "full load" basis not to exceed the limits stated on the approved operational plan for each type of recyclable.

4. The ACD stockpile is being reduced as weather permits. The cooled ash has been properly disposed.

If you have any questions regarding the Bolton Road site, please do not hesitate to call me at (404) 799-1273.

Sincerely,

SOUTHERN STATES LANDFILL, INC.

Mike Mull
Landfill Operations Manager

cc: Mr. James Dunbar
Mr. Morgan Cantrell
Mr. Cedric Maddox
Mr. De Von Bogue
Mr. Eric Cash

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County FULTON (ATLANTA)

Date AUGUST 30, 1989

Permit Number 060-010D(SL)

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 94

Site Name SOUTHERN STATES – BOLTON ROAD

PROHIBITED ACTS **If any of the following exists or is indicated, SLR = 0. Check**

- ☐ Operating a disposal site without a permit. NOTE: if permit applicatio has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0, 15) **Check appropriate blocks and state rating** Ratin

A*	U*		
☒	☐	Site being operated in accordance with permit and design and operational plan.	15

REQUIREMENTS **Check appropriate blocks and state individual rating**

		1. Unloading (0,4)	
☒	☐	a. restricted to the working face or immediate vicinity	4
☒	☐	b. waste easily incorporated into the working face	
		2. Spreading and Compaction (0,4)	
☒	☐	a. waste spread into uniform layers, (generally two feet thick)	4
☒	☐	b. waste compacted to smallest practical volume	
☒	☐	c. size of working face minimized	
		3. Daily Cover (0,15)	
☒	☐	a. compacted, clean earth, 6" thickness (minimum)	15
☒	☐	b. placed over waste at the end of each working day NOTE: In all cases waste must be covered with earth at least every 24 hours	
		4. Intermediate Cover (0,4)	
☒	☐	a. compacted, clean earth, one foot thickness (minimum)	4
☒	☐	b. placed over each portion of any intermediate lift/area following completion of that portion	
☐		c. none required at this time	
		5. Final Cover (0,4)	
☒	☐	a. compacted, clean earth, two feet thickness (minimum)	4
☒	☐	b. placed over final lift not later than one month following placement of waste within that lift	
☐		c. none required at this time	

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County Fulton

Date January 5, 1987

Permit Number 060-010D(SL)

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 90

Site Name Southern States - Bolton Road

PROHIBITED ACTS **If any of the following exists or is indicated, SLR = 0. Check**

- ☐ Operating a disposal site without a permit. NOTE: if permit application has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0,15) **Check appropriate blocks and state rating** — Rating: 15

A*	U*	
☒	☐	Site being operated in accordance with permit and design and operational plan.

REQUIREMENTS **Check appropriate blocks and state individual rating**

1. Unloading (0,4) — Rating: 4

☒	☐	a. restricted to the working face or immediate vicinity
☒	☐	b. waste easily incorporated into the working face

2. Spreading and Compaction (0,4) — Rating: 4

☒	☐	a. waste spread into uniform layers, (generally two feet thick)
☒	☐	b. waste compacted to smallest practical volume
☒	☐	c. size of working face minimized

3. Daily Cover (0,15) — Rating: 15

☒	☐	a. compacted, clean earth, 6" thickness (minimum)
☒	☐	b. placed over waste at the end of each working day **NOTE:** In all cases waste must be covered with earth at least every 24 hours

4. Intermediate Cover (0,4) — Rating: 4

☒	☐	a. compacted, clean earth, one foot thickness (minimum)
☒	☐	b. placed over each portion of any intermediate lift/area following completion of that portion
☐		c. none required at this time

5. Final Cover (0,4) — Rating: 4

☒	☐	a. compacted, clean earth, two feet thickness (minimum)
☒	☐	b. placed over final lift not later than one month following placement of waste within that lift
☐		c. none required at this time

A*	U*		
		6. Grading and Drainage (0,6)	
☒	☐	a. slope of disposal area sufficient to maximize runoff and minimize erosion	
☒	☐	b. maintenance of ditches, swales, berms, terraces, trenches	
☒	☐	c. maintenance of drainage structures (downdrains, pipes, inlets, etc.)	
		7. Continuity of Operation (0,2)	
☒	☐	a. all weather access roads to disposal area	2
☒	☐	b. provisions for prompt equipment repair or replacement when needed	
		8. Environmental Protection	
		a. Air (0,4)	
☒	☐	1) dust control	4
☒	☐	2) maintenance of methane gas structures (if required)	
		b. Land (0,6)	
☒	☐	1) maintenance of eroded areas	0
☐	☒	2) finished areas vegetated or otherwise protected to prevent erosion	
☒	☐	3) disturbed areas, including soil stockpiles, vegetated to prevent erosion	
☐	☒	4) Maintenance of silt control structures (haybales, fabric fences, riprap, etc.)	
☐	☒	5) maintenance of ponds and basins (standpipes, emergency spillways, sediment removal, etc.)	
		c. Water (0,6)	
☒	☐	1) leachate control (includes collection and treatment if required)	6
☒	☐	2) water monitoring points clearly identified, accessible and in good condition	
☒	☐	3) water monitoring analysis current	
		9. Supervision (0,4)	
☒	☐	a. site under supervision of responsible individual	4
☒	☐	b. responsible individual at the disposal site at all times while site is operational	
		10. Limited Access (0,6)	
☒	☐	a. access limited to authorized entrances	6
☒	☐	b. authorized entrances closed when site is not in operation	
		11. Rubbish and Litter Control (0,4)	
☐	☒	a. exposed rubbish and debris (except in designated reclamation area)	0
☒	☐	b. litter control (fencing or other barriers, daily policing)	

A*	U*		
		12. Fire Protection and Stockpiled Soil (0,4)	
☒	☐	a. soil placed near the working face to control fires or to be used for cover during periods of inclement weather	4
☒	☐	b. other fire fighting methods provided	
☒	☐	c. soil stockpiles (overburden, fire control, cover) placed so as not to be a "cave-in" threat to open trenches	
		13. Special Waste (0,4)	4
☒	☐	a. special provisions for immediate disposal of dead animals or highly putrescible waste (eggs, entrails, offal, etc.)	
☒	☐	b. provisions for handling asbestos or other waste requiring special handling	
		Additional Stipulations	
☒	☐	14. informational and directional signs posted (0,2)	2
☒	☐	15. site communications (telephone, two-way radio) (0,2)	2
☒	☐	16. employee facility (toilet, drinking water, first aid kit)(0,2)	2
☒	☐	17. control of vectors (0,2) if a vector problem exists or is indicated, check the appropriate vector:	2
		insects ☐ rodents ☐ birds ☐ animals ☐	

Sanitary Landfill Rating (SLR)= 90 . SLR excluding prohibited acts ____.
SLR must be 86 or higher to be an acceptable sanitary landfill.

A* denotes acceptable parameter.

U* denotes unacceptable parameter. (A single parameter for any requirement may be sufficient to preclude any score for that requirement.)

Comments:

1. I was accompanied by Mr. Morgan V. Cantrell, Unit Coordinator, Solid Waste Control Unit and Eric Cash and Leon Watkins of Southern St ates Landfill, Inc.
2. The filled area along the railroad track needs to be graded and grassed.
3. Place siltation control fabric around the drainage structure located near the railroad track.
4. Close off the hole in the drain pipe that runs through the silt pond.
5. Dispose of the stockpile of demolition material located adjacent to the Air Curtain Destructor. This material is not appropriate for burning as defined in Permit No. 060-067P(Inc). Unacceptable materials in stockpile included old roofing, metals, dirt, brick, concrete, carpet, cardboard, etc.
6. The Air Curtain Destructor must not be operated until the structure has been completed according to the approved D & O Plan.

Location of current operations:

Phase [1] Area/trench [1] Lift [3]

Time of inspection: 1:15PM Weather conditions: Sunny & Cool

Reasons for inspection: [X] Routine [ ] Other _____

Discussed with:

	Name	Title	Address	Telephone
1)	Eric Cash	Vice President, Southern States Landfill, Inc.	4696 Oakdale Road, Smyrna, GA 30080	799-1273
2)	Leon Watkins	Site Supervisor, (Same as above)		
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	Raymond Cash	President (Same as above)		435-9962
2)	W. Cedric Maddox	Director, Bureau of Sanitary Services,	1540 Northside Drive, Atlanta, GA 30318	351-0289
3)	M. DeVon Bogue	Director of Environmental Health Services,	Fulton County Health Department, 99 Butler Street SE, Atlanta, GA 30303	572-2116
4)				

Photographs: [X] Yes [ ] No: Total number 2 : Location filed: Atlanta Film Fil

Inspected by: Donald H. McCarty, Jr.

Reviewed by: Morgan V. Cantrell Review date: 1-13-87

Attachments: None

Comments (Cont'd)

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

February 25, 1987

M E M O R A N D U M

TO: James W. Dunbar JWD

FROM: Bill Mundy

SUBJECT: Disposal of waste generated by CSX Transportation, Atlanta, Georgia

We plan to send the attached letter to the referenced facility by February 27, 1987. Please indicate by completing the form below, your comments on the matter.

_____ I have no objection to the waste being disposed in a permitted sanitary landfill.

JWD I have no objection to the waste being disposed in a permitted sanitary landfill subject to the following stipulations:

Provided the waste is made bladeable and provided we know what site it is going to.

_____ I object to the waste being disposed in a permitted sanitary landfill.

JDT:tcw:1046K

File: CSX Transportation

Fulton (Atlanta)
Southern States - Bolton Rd

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

February 26, 1987

TRIP REPORT

Site Name and Location: Fulton Co. - Southern States Sanitary Landfill; ACD, P(Inc); Atlanta

Trip by: Barbara A. Ross, P. E., Environmental Engineer BAR
Permit Review Unit

Accompanied by: None

Date of Trip: February 16, 1987

Officials Contacted: Raymond Cash, President
Southern States

Donald McPherson, Consultant
McPherson Systems

Reference: Per Mr. McPerson's request of February 13, 1987

Comments: (See Schematic)

1. Although the ACD operations have been permitted (November 7, 1986), Mr. McPherson is proposing a change in the grading of the approved ACD location. Because of the shallow water table observed during the initial ACD pit excavation (per Mr. McPherson), instead of an excavated ACD pit, Mr. McPherson proposes to first excavate the existing soil, second to backfill the approved ACD area and then thirdly, to excavate the pit in the clay fill.

2. Currently, the area south of the permitted ACD area has been soil filled to a height of 10-15 feet above the elevations shown in the approved ACD. plan.

3. Mr. McPherson further proposes to have the pit gravity drain to the drainage ditch at the western boundary.

Conclusions:

1. I informed Mr. McPherson and Mr. Cash that a written request to Jim Dunbar for the modification is required.

2. In my judgement, as stated, the requested modifications can be approved.

Recommendations and Follow-up Required: None; await written request to Jim Dunbar.

Photographs: None

Reviewed by: Harold C. Dilley

Attachments: Site Schematic

BAR:sf
c: Morgan Cantrell

Fulton (Atlanta)
Southern States-Bolton.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

February 27, 1987

Mr. T. W. Dean
Freight Damage Prevention Supervisor
CSX Transportation
Freight Damage Prevention and Claims
1590 Marietta Boulevard, N.W.
Atlanta, Georgia 30318

Re: Disposal of polyvinyl alcohol

Dear Mr. Dean:

We have reviewed the data you submitted regarding the proposed disposal of 25,000 - 28,000 pounds of polyvinyl alcohol generated as a result of a spill on January 14, 1987 near Lawrenceville, Georgia.

A review of the Material Safety Data Sheet for the product has been conducted. Based upon our review, the material is a non-hazardous solid waste.

Being nonhazardous, we have no objection to disposal in a permitted sanitary landfill with the concurrence of the landfill owner. As indicated in your correspondence, you propose to dispose of this waste in the Southern States Landfill located at 4696 Oakdale Road in Smyrna, Georgia. Disposal of this waste is conditional upon the waste being bladeable prior to its delivery to the landfill.

Please be advised that should the character of the waste change as a result of process modifications, raw material changes , etc., it is your responsibility to re-analyze the waste so that it continues to be properly classified as hazardous or nonhazardous.

Should you need additional information, please call 404/656-7802.

RECEIVED
MAR 3 1987
Solid Waste
Management Program

Sincerely,

for

Bill Mundy
Unit Coordinator
Hazardous Waste Management Program

BM:tcw:1046K

c: James W. Dunbar

File: Gwinnett County (G)
CSX Transportation, Corp. H.Q., Jacksonville (R)

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

July 1, 1987

Fulton Co.
Southern States - Bolton
SL

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

An inspection of the subject solid waste disposal site was conducted on June 5, 1987. Observations of the site's numerous violations are delineated in the enclosed evaluation report.

Open burning of solid waste was observed in a pit in the area designated for the permitted air curtain destructor. This is a prohibited act under the Solid Waste Management Act. All open burning of solid waste must cease immediately.

The operation of the site was not in accord with the approved D & O Plan. Please reference the comments in the evaluation report regarding these deviations.

Should you have any questions regarding this report or desire technical assistance in bringing your site back into compliance, please feel free to call me at 404/656-2836.

Sincerely,

Donald H. McCarty, Jr.

Donald H. McCarty, Jr.
Environmental Specialist
Solid Waste Control Unit

DHMc:sf
Enclosure: Evaluation Report dated 6/5/87
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County Fulton

Date July 20, 1987

Permit Number 060-010D(SL

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 69

Site Name Southern States - Bolton Road

PROHIBITED ACTS **If any of the following exists or is indicated, SLR = 0. Check**

- ☐ Operating a disposal site without a permit. NOTE: if permit application has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0,15) **Check appropriate blocks and state rating** — **Rating** 0

A*	U*	
☐	☒	Site being operated in accordance with permit and design and operational plan.

REQUIREMENTS **Check appropriate blocks and state individual rating**

1. Unloading (0,4) — Rating 4

☒	☐	a. restricted to the working face or immediate vicinity
☒	☐	b. waste easily incorporated into the working face

2. Spreading and Compaction (0,4) — Rating 4

☒	☐	a. waste spread into uniform layers, (generally two feet thick)
☒	☐	b. waste compacted to smallest practical volume
☒	☐	c. size of working face minimized

3. Daily Cover (0,15) — Rating 15

☒	☐	a. compacted, clean earth, 6" thickness (minimum)
☒	☐	b. placed over waste at the end of each working day **NOTE:** In all cases waste must be covered with earth at least every 24 hours

4. Intermediate Cover (0,4) — Rating 0

☐	☒	a. compacted, clean earth, one foot thickness (minimum)
☐	☒	b. placed over each portion of any intermediate lift/area following completion of that portion
☐		c. none required at this time

5. Final Cover (0,4) — Rating 4

☒	☐	a. compacted, clean earth, two feet thickness (minimum)
☒	☐	b. placed over final lift not later than one month following placement of waste within that lift
☐		c. none required at this time

A*	U*		
		12. Fire Protection and Stockpiled Soil (0,4)	
☒	☐	a. soil placed near the working face to control fires or to be used for cover during periods of inclement weather	4
☒	☐	b. other fire fighting methods provided	
☒	☐	c. soil stockpiles (overburden, fire control, cover) placed so as not to be a "cave-in" threat to open trenches	
		13. Special Waste (0,4)	4
☒	☐	a. special provisions for immediate disposal of dead animals or highly putrescible waste (eggs, entrails, offal, etc.)	
☒	☐	b. provisions for handling asbestos or other waste requiring special handling	
		Additional Stipulations	
☒	☐	14. informational and directional signs posted (0,2)	2
☒	☐	15. site communications (telephone, two-way radio) (0,2)	2
☒	☐	16. employee facility (toilet, drinking water, first aid kit)(0,2)	2
☒	☐	17. control of vectors (0,2) if a vector problem exists or is indicated, check the appropriate vector:	2
		insects ☐ rodents ☐ birds ☐ animals ☐	

Sanitary Landfill Rating (SLR)= 69 . SLR excluding prohibited acts ____. SLR must be 86 or higher to be an acceptable sanitary landfill.

A* denotes acceptable parameter.

U* denotes unacceptable parameter. (A single parameter for any requirement may be sufficient to preclude any score for that requirement.)

Comments:

1. I was accompanied by Morgan V. Cantrell, Unit Coordinator, Solid Waste Control Unit, Leon Watkins and Joe Mills.

2. The air curtain destructor was inspected for construction in accord with the approved Design and Operational Plan. The drainage swale has not been installed in accord with the plan. The soil barrier must be placed at the end of the pit prior to beginning operation.

3. The plan must be modified to show changes in the drainage structures and filling beyond the approved limits as indicated in the last inspection report.

4. Additional intermediate cover must be applied and grassing of completed areas must be accomplished.

5. The drainage structure shown on the northwest portion of the site above the silt pond has been reinstalled.

6. The silt fencing around the drop inlet on the southeastern portion of the site is not installed in a trench.

7. The working face was satisfactory.

Location of current operations:

Phase [1] Area/trench [1] Lift [ ]

Time of inspection: 10:15 AM Weather conditions: Sunny & Warm

Reasons for inspection: [X] Routine [ ] Other _____

Discussed with:

	Name	Title	Address	Telephone
1)	Leon Watkins	Site Supervisor, Southern States Landfill, Inc.	4696 Oakdale Road, Smyrna, GA 30080	799-1273
2)	Joe Mills	Site Supervisor, (Same as above)		
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	Raymond Cash	President (Same as above)		435-9962
2)	W. Cedric Maddox	Director, Bureau of Sanitary Services,	1540 Northside Drive, Atlanta, GA 30318	351-0289
3)	M. DeVon Bogue	Director of Environmental Health Services,	Fulton County Health Department, 99 Butler St., SE, Atlanta, GA 30303	572-211
4)				

Photographs: [ ] Yes [X] No: Total number ____: Location filed: _____

Inspected by: Donald H. Y. Coty, Jr.

Reviewed by: Morgan V. Cantrell Review date: 8-26-87

Attachments:

None

Comments (Cont'd)

Fulton (Atlanta)
Sou. States – Bolton Rd.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

July 31, 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Raymond M. Cash, President
Southern States LF, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

Dear Mr. Cash:

Representatives of the Environmental Protection Division (EPD) have conducted an inspection of the Southern States LF, Inc. - Bolton Road solid waste disposal site and the Southern States LF, Inc. - Bolton Road Air Curtain Destructor. Our records indicate that you have been apprised of the violations of the Rules and Regulations for Solid Waste Management, and the Solid Waste Management Act.

O.C.G.A. § 12-8-26 of the Solid Waste Management Act makes it unlawful for any person to engage in solid waste handling, except in such a manner as to conform to and comply with all rules, regulations, orders, and permits established under the provisions of the Act. You are advised that O.C.G.A. § 12-8-41 of the Act provides that any person violating any provisions of this Act or intentionally or negligently failing or refusing to comply with any final or emergency order of the Director issued as provided herein, shall be liable to a civil penalty not to exceed $1,000.00 for such violation and an additional civil penalty not to exceed $500.00 for each day during which such violation continues.

In accordance with the attached Consent Order, I am offering an amicable disposition of these allegations concerning the Southern States LF, Inc.- Bolton Road solid waste disposal site, and the Southern States LF, Inc. - Bolton Road Air Curtain Destructor whereby you will pay the State of Georgia a sum of $1,000.00 which will be regarded as a negotiated consideration of a disputed claim and provided that you execute the Consent Order document. If you desire to settle this claim in such a fashion, please return a check made payable to the State of Georgia, and the signed Consent Order to my office by August 17, 1987.

If I do not hear from you on or before August 17, 1987, I will interpret this as an unwillingness on your part to accept the settlement, and an Administrative Order will be imposed, and civil penalties in accordance with the provisions of the law will be sought.

Further violations of the Solid Waste Management Act or Solid Waste Management Rules will subject you to the maximum penalty per day authorized under the Act.

Sincerely,

Harold F. Reheis, P. E.
Assistant Director

HFR: jdf
Attachment
c: John D. Taylor, Jr.
James W. Dunbar

SWP Fulton Co. - Southern States - Bolton Rd

Georgia Department of Natural Resources

205 Butler Street, S.E., Suite 1252, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
404/656-3500

August 24, 1987

Mr. Raymond M. Cash, President
Southern States LF, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

RE: Consent Order No. EPD-SW-385

Dear Mr. Cash:

We have received the signed consent order and check for $1,000 from Southern States LF, Inc. Enclosed is a copy of the executed order. Southern States LF, Inc. will be expected to meet all the conditions of this order.

Your cooperation in this matter is appreciated.

Sincerely,

J. Leonard Ledbetter
Commissioner

JLL:jdf
Enclosure
c: Harold F. Reheis

CT

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

Fulton Co
Southern States - Bolton Rd

August 25, 1987

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

An inspection of the subject solid waste disposal site was conducted on July 20, 1987. Enclosed for your review is an evaluation report delineating my observations of the operating conditions during this visit.

Installation of the air curtain destructor was inspected. Please reference my comments in the report noting the items remaining to be completed prior to the start-up of this unit.

Should you have any questions regarding this report or desire technical assistance to bringing your site into compliance, please feel free to call me at 404/656-2836.

Sincerely,

Donald H. McCarty, Jr.

Donald H. McCarty, Jr.
Environmental Specialist
Solid Waste Control Unit

DHMc:sf
Enclosure: Evaluation Report dated 7/20/87
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

.gia Department of Natural Resources
Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County Fulton

Date 9/22/87

Permit Number 060-010D(SL)

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 92

Site Name Southern States - Bolton Road

PROHIBITED ACTS **If any of the following exists or is indicated, SLR = 0. Check**

- ☐ Operating a disposal site without a permit. NOTE: if permit application has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0, 15) **Check appropriate blocks and state rating** — Rating: 15

A*	U*	
☒	☐	Site being operated in accordance with permit and design and operational plan.

REQUIREMENTS **Check appropriate blocks and state individual rating**

A*	U*		Rating
		1. Unloading (0,4)	
☒	☐	a. restricted to the working face or immediate vicinity	4
☒	☐	b. waste easily incorporated into the working face	
		2. Spreading and Compaction (0,4)	
☒	☐	a. waste spread into uniform layers, (generally two feet thick)	4
☒	☐	b. waste compacted to smallest practical volume	
☒	☐	c. size of working face minimized	
		3. Daily Cover (0,15)	
☒	☐	a. compacted, clean earth, 6" thickness (minimum)	15
☒	☐	b. placed over waste at the end of each working day **NOTE:** In all cases waste must be covered with earth at least every 24 hours	
		4. Intermediate Cover (0,4)	
☒	☐	a. compacted, clean earth, one foot thickness (minimum)	4
☒	☐	b. placed over each portion of any intermediate lift/area following completion of that portion	
☐		c. none required at this time	
		5. Final Cover (0,4)	
☐	☒	a. compacted, clean earth, two feet thickness (minimum)	0
☐	☒	b. placed over final lift not later than one month following placement of waste within that lift	
☐		c. none required at this time	

A*	U*		
		6. Grading and Drainage (0,6)	
☒	☐	a. slope of disposal area sufficient to maximize runoff and minimize erosion	6
☒	☐	b. maintenance of ditches, swales, berms, terraces, trenches	
☒	☐	c. maintenance of drainage structures (downdrains, pipes, inlets, etc.)	
		7. Continuity of Operation (0,2)	
☒	☐	a. all weather access roads to disposal area	2
☒	☐	b. provisions for prompt equipment repair or replacement when needed	
		8. Environmental Protection	
		a. Air (0,4)	4
☒	☐	1) dust control	
☒	☐	2) maintenance of methane gas structures (if required)	
		b. Land (0,6)	6
☒	☐	1) maintenance of eroded areas	
☒	☐	2) finished areas vegetated or otherwise protected to prevent erosion	
☒	☐	3) disturbed areas, including soil stockpiles, vegetated to prevent erosion	
☒	☐	4) Maintenance of silt control structures (haybales, fabric fences, riprap, etc.)	
☒	☐	5) maintenance of ponds and basins (standpipes, emergency spillways, sediment removal, etc.)	
		c. Water (0,6)	6
☒	☐	1) leachate control (includes collection and treatment if required)	
☒	☐	2) water monitoring points clearly identified, accessible and in good condition	
☒	☐	3) water monitoring analysis current	
		9. Supervision (0,4)	
☒	☐	a. site under supervision of responsible individual	4
☒	☐	b. responsible individual at the disposal site at all times while site is operational	
		10. Limited Access (0,6)	6
☒	☐	a. access limited to authorized entrances	
☒	☐	b. authorized entrances closed when site is not in operation	
		11. Rubbish and Litter Control (0,4)	
☐	☒	a. exposed rubbish and debris (except in designated reclamation area)	0
☐	☒	b. litter control (fencing or other barriers, daily policing)	

A*	U*		
		12. Fire Protection and Stockpiled Soil (0,4)	
☒	☐	a. soil placed near the working face to control fires or to be used for cover during periods of inclement weather	4
☒	☐	b. other fire fighting methods provided	
☒	☐	c. soil stockpiles (overburden, fire control, cover) placed so as not to be a "cave-in" threat to open trenches	
		13. Special Waste (0,4)	
☒	☐	a. special provisions for immediate disposal of dead animals or highly putrescible waste (eggs, entrails, offal, etc.)	4
☒	☐	b. provisions for handling asbestos or other waste requiring special handling	

Additional Stipulations

☒	☐	14. informational and directional signs posted (0,2)	2
☒	☐	15. site communications (telephone, two-way radio) (0,2)	2
☒	☐	16. employee facility (toilet, drinking water, first aid kit)(0,2)	2
☒	☐	17. control of vectors (0,2) if a vector problem exists or is indicated, check the appropriate vector:	2

insects ☐ rodents ☐ birds ☐ animals ☐

Sanitary Landfill Rating (SLR)= 92 . SLR excluding prohibited acts ____.
SLR must be 86 or higher to be an acceptable sanitary landfill.

A* denotes acceptable parameter.

U* denotes unacceptable parameter. (A single parameter for any requirement may be sufficient to preclude any score for that requirement.)

Comments:

1. I was accompanied by Leon Watkins and Larry E. Woodall.
2. Area 1AD is being prepared for dispsoal. Survey control markers must be erected delineated on the approved D & O Plan. Elevation of Area 1AD must be checked.
3. Litter and debris must be policed around the site.
4. Operating conditions have greatly improved. Finished areas have been grassed. Grassing has not become established.
5. The earth berm at the end of the burn pit of the air curtain destructor has been installed. Also, the drainage swale around the structure has been installed. The stockpile of wood waste to be burned was well managed.
6. Water monitoring data is due during the month of September.
7. A modification to the D & O Plan has been submitted for review as in the terms of Consent Order No. EPD-SW-385.
8. There are several places on the site that final cover was thinner than the requirement. Solid waste was observed protruding through the earth cover. This requirement can be met with only a little more effort.

Location of current operations:

Phase [1] Area/trench [1A] Lift [5]

Time of inspection: 9:05 AM Weather conditions: Sunny & Warm

Reasons for inspection: [X] Routine [ ] Other _____

Discussed with:

	Name	Title	Address	Telephone
1)	Leon Watkins	Site Supervisor, Southern States Landfill, Inc.	4696 Oakdale Road, Smyrna, GA 30080	799-1273
2)	Larry E. Woodall	Vice President, Administrative	(Same as above)	435-9962
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	Raymond Cash	President	(Same as above)	435-9962
2)	W. Cedric Maddox	Director, Bureau of Sanitary Services,	1540 Northside Drive, Atlanta, GA 30318	351-0289
3)	M. DeVon Bogue	Director of Environmental Health Services,	Fulton County Health Department, 99 Butler St., SE, Atlanta, GA 30303	572-2116
4)				

Photographs: [ ] Yes [X] No; Total number ____: Location filed: _____

Inspected by: Donald H. McCarty, Jr.

Reviewed by: Morgan V. Cantrell Review date: 10-1-87

Attachments: None

Comments (Cont'd)

Georgia Department of Natural Resources
205 Butler Street, S.E., Suite 1252, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
404/656-3500

August 24, 1987

Mr. Kenneth Lewis
Cash Management
Room 1262
Floyd Towers East
Atlanta, Georgia 30334

RE: Consent Order No. EPD-SW-385
Southern States LF, Inc.

Dear Mr. Lewis:

Attached is a check in the amount of $1,000 from the above referenced Company. This was for violation of the Solid Waste Management Act. This check should be deposited into Account No. 461.3.

Please acknowledge the receipt of this check by signing on the lines provided.

Sincerely,

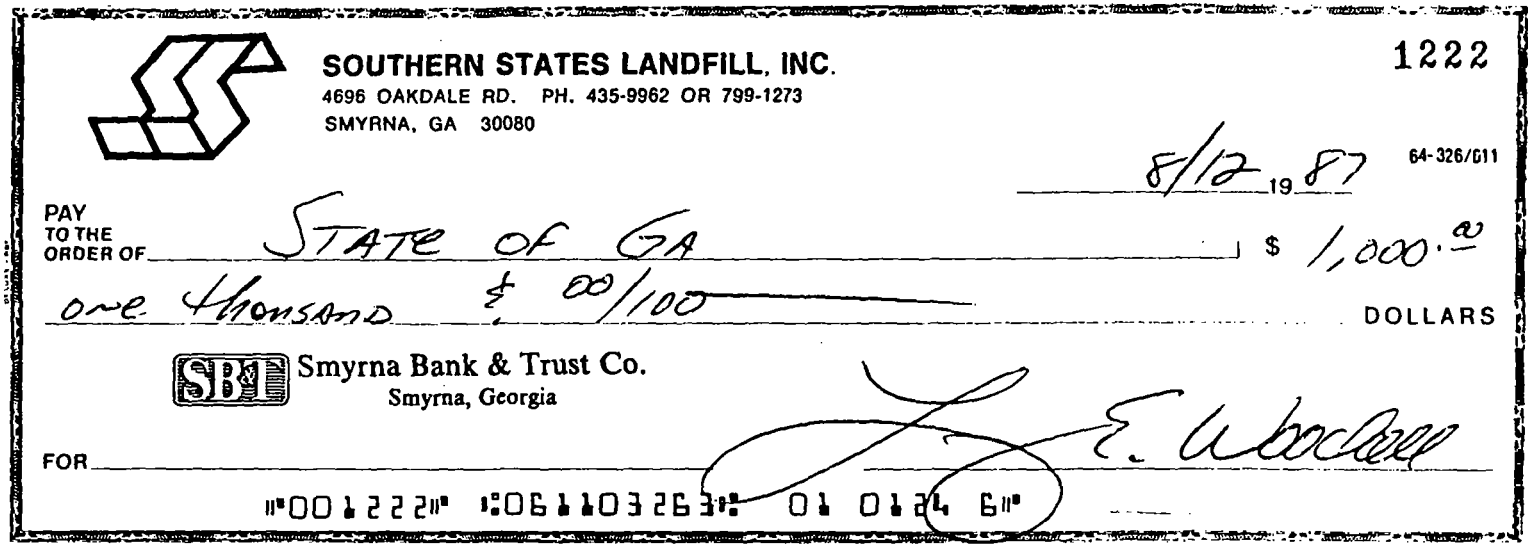
J. Leonard Ledbetter
Commissioner

JLL:jdf
Attachment
c: Harold F. Reheis

Receipt of Check No. 1222
in the amount of $1,000.

By:_____

Date: _____



SOUTHERN STATES LANDFILL, INC.
4696 OAKDALE RD. PH. 435-9962 OR 799-1273
SMYRNA, GA 30080

1222

8/12 19 87

64-326/611

PAY TO THE ORDER OF STATE OF GA $ 1,000.00

one thousand & 00/100 DOLLARS

SBT Smyrna Bank & Trust Co.
Smyrna, Georgia

FOR

E. Woodall

⑈001222⑈ ⑆061103263⑆ 01 0124 6⑈

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

Fulton Co.
Southern States - Bolton Rd. SW

September 29, 1987

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

On September 22, 1987, I was accompanied on an inspection of the subject solid waste disposal site by Mr. Leon Watkins and Mr. Larry E. Woodall. Enclosed for your review is an evaluation report delineating my observations of the operating conditions during the visit.

The site was found to be in compliance during this visit. Since the Design and Operational Plan modification has been received in compliance with Consent Order No. EPD-SW-385, credit has been granted for operating in accord with the plan and permit. I appreciate the effort made to improve the site's operations. Please remember that water monitoring data is due during the month of September.

If you have any questions regarding this report or desire technical assistance in solid waste handling, please feel free to call me at 404/656-2836.

Sincerely,

Donald H. McCarty, Jr.

Donald H. McCarty, Jr.
Environmental Specialist
Solid Waste Control Unit

DHMc:sf
Enclosure: Evaluation Report dated 9/22/87
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

SWP E CT

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

December 9, 1987

Fulton Co.
Southern States -
Bolton Rd. SL

TRIP REPORT

SITE NAME AND LOCATION:.....	Fulton County Southern States Landfill, Inc. Bolton Road (SL) Atlanta, Georgia
TRIP BY:	Barbara Ross Howard, P.E., EAH Environmental Engineer Permit Review Unit
ACCOMPANIED BY:	None
DATE OF TRIP:	October 20, 1987
OFFICIALS CONTACTED:.....	Steve Harbin, Consultant, Tribble and Richardson, Inc.
REFERENCE:.....	Receipt of D & O plan modification on September 23, 1987; site investigation (see schematic).

COMMENTS:

1. The fill area at the eastern boundary of the site was at the railroad track elevation. A survey marker could not be observed from the eastern boundary.

2. Silt fence was not observed around the inlet at the sediment basin and the site's western boundary.

3. A ditch had been excavated from the landfill to the sediment basin.

4. The pipeline at the western boundary is incorrectly shown on the plan modification. An existing culvert and down drain in the south eastern segment of the site is not shown on the D & O plan. Silt fence was not observed around the structure inlets.

5. The proposed ACD relocation area is within the vehicle access road area. Operation of an ACD in the proposal location would obstruct vehicle access to the landfill operations.

CONCLUSIONS:

1. A survey marker at the eastern boundary should be shown on the plan and erected at the site.

2. All existing structures such as the culvert down drain and pipelines should be correctly shown in the D & O plan. Silt fence should also be specified a maximum 10 ft. from structure inlets.

3. A down drain with silt fence is needed at the excavated ditch between the landfill and the sediment basin to prevent wastes from entering the basin and maintain a stable side slope between the landfill and the sediment basin.

4. The proposed ACD relocation area should not be approved. Following the commencing of wastes disposal in the current ACD location, the site should be investigated and a new ACD location assessed.

RECOMMENDATIONS AND FOLLOW-UP REQUIRED:

Review of the D & O plan modification will continue.

PHOTOGRAPHS:..... None.

REVIEWED BY:.....

ATTACHMENTS:..... Site schematic

C. Morgan V. Cantrell
BRH:kaw:1532K

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

December 9, 1987

TRIP REPORT

Site Name and Location: Fulton Co. - Southern States LF Inc., Bolton Rd. ACD P(Inc) and (SL); Atlanta

Trip by: Barbara Ross Howard, P.E. Environmental Engineer
Permit Review Unit

Accompanied by: George Harris, Environmental Specialist, N. Georgia Regional Office

Date of Trip: October 28, 1987

Officials Contacted: Steve Harbin, Consultant, Tribble and Richardson
Bill Hodges, Consultant, Tribble and Richardson
Claude Goodley, Solid Waste Manager, City of Atlanta
Leon Weekes, Site Supervisor

Reference: Conditional Permit Approval for site sanitary landfill D & O Plan, issued by City of Atlanta on August 4, 1987; final approval is pending satisfactory performance of ACD. later removed for violations

Comments:

1. Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, was conducted by George Harris to determine the compliance status of the incineration process.

2. Mr. Weekes and Mr. Hodges stated the ashes recovered from the ACD pit would be unloaded, placed in area 1C and immediately covered with soil. Following the ash cooling, the ash would be disposed of in a permitted disposal area.

Conclusions:

1. The ACD emissions were well below the 40% opacity limit. The ACD was judged to be in compliance with the Georgia Air Quality Rules and the proposed ACD operations should be in accord with the approved D & O plan specifications.

Recommendations and Follow-up Required: None; await City of Atlanta final D&O plan approval.

Photographs: None

Reviewed by:

Attachments: Method 9 test copy

file swr - Fulton Co. 1) Southern States LF Inc, Bolton Rd. MCD P (Inc) CT
2) " " " (SL)

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

December 9, 1987

TRIP REPORT

Site Name and Location: Fulton Co. - Southern States LF Inc., Bolton Rd. ACD P(Inc) and (SL); Atlanta

Trip by: Barbara Ross Howard, P.E. Environmental Engineer BRH
Permit Review Unit

Accompanied by: George Harris, Environmental Specialist, N. Georgia Regional Office

Date of Trip: October 28, 1987

Officials Contacted: Steve Harbin, Consultant, Tribble and Richardson
Bill Hodges, Consultant, Tribble and Richardson
Claude Goodley, Solid Waste Manager, City of Atlanta
Leon Weekes, Site Supervisor

Reference: Conditional Permit Approval for site sanitary landfill D & O Plan, issued by City of Atlanta on August 4, 1987; final approval is pending satisfactory performance of ACD.

Comments:

1. Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, was conducted by George Harris to determine the compliance status of the incineration process.

2. Mr. Weekes and Mr. Hodges stated the ashes recovered from the ACD pit would be unloaded, placed in area 1C and immediately covered with soil. Following the ash cooling, the ash would be disposed of in a permitted disposal area.

Conclusions:

1. The ACD emissions were well below the 40% opacity limit. The ACD was judged to be in compliance with the Georgia Air Quality Rules and the proposed ACD operations should be in accord with the approved D & O plan specifications.

Recommendations and Follow-up Required: None; await City of Atlanta final D&O plan approval.

Photographs: None

Reviewed by:

Attachments: Method 9 test copy

Location of current operations:
Phase [1] Area/trench [1A] Lift [ ]

Time of inspection: 9:15 A.M. Weather conditions: SUNNY & WARM

Reasons for inspection: [X] Routine [ ] Other _____

Discussed with:

	Name	Title	Address	Telephone
1)	ERIC CASH	VICE PRESIDENT	SOUTHERN STATES LANDFILL, INC., 4696 OAKDALE ROAD, SMYRNA, GA 30080	799-1273
2)	LEON WATKINS	VICE PRESIDENT	(SAME AS ABOVE)	
3)	JOE MILLS	SITE SUPERVISOR	(SAME AS ABOVE)	
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	RAYMOND CASH	PRESIDENT	SOUTHERN STATES LANDFILL, INC., 4696 OAKDALE ROAD, SMYRNA, GA 30080	435-9962
2)	MICHAEL MULL	SITE SUPERVISOR	(SAME ADDRESS)	799-1273
3)	W. CEDRIC MADDOX	DIRECTOR, BUREAU OF SANITARY SERVICES	55 TRINITY AVENUE, SW, SUITE 4800, ATLANTA, GA 30335-0326	330-6250
4)	M. DE VON BOGVE	DIRECTOR, ENVIRONMENTAL HEALTH SERVICES, FULTON COUNTY HEALTH DEPARTMENT, 99 BUTLER ST., SE, ATLANTA, GA 30303		572-2116

Photographs: [X] Yes [ ] No: Total number 1 : Location filed: ATLANTA FILE F

Inspected by: Donald H. McCarty, Jr.

Reviewed by: Morgan V. Cantrell Review date: 6-28-89

Attachments: NONE

Comments (Cont'd)

6. THE SECURITY FENCE HAS BEEN INSTALLED.
7. ADDITIONAL GRASSING HAS BEEN ACCOMPLISHED.
   RECLAMATION PERMIT NO. 060-066 P (RM)
8. RECLAMATION WAS INACTIVE DURING THIS VISIT. CLEAN OUT CONTAINERS NEEN.
   AIR CURTAIN DESTRUCTOR, PERMIT NO. 060-067 P (INC)
9. UNIT WAS NOT BEING OPERATED DURING VISIT. WOOD WASTE CONTINUES BE APPROPRIATELY STOCKPILED. STOCKPILED ASHES HAVE NOT BEEN PROM. DISPOSED IN THE WORKING FACE AFTER COOL DOWN.

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

CT

T. Alton Co.
Southern States - Bolton
SL

January 21, 1988

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

An inspection of the subject solid waste disposal site was conducted on January 12, 1988. Enclosed for your review is an evaluation report delineating my observations of the operating conditions during the visit.

The overall conditions were found to be satisfactory. As site improvements are made, please reference my comments in the report.

If you have any questions regarding this report or desire technical assistance in solid waste handling, please feel free to call me at 404/656-2836.

Sincerely,

Donald H. McCarty, Jr.

Donald H. McCarty, Jr.
Environmental Specialist
Solid Waste Control Unit

DHMc:sf
Enclosure: Evaluation Report dated 1/12/88
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County FULTON (ATLAN

Date JANUARY 12, 1988

Permit Number 060-0100(S

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 92

Site Name SOUTHERN STATES - BOLTON ROAD

PROHIBITED ACTS If any of the following exists or is indicated, SLR = 0. Check

- ☐ Operating a disposal site without a permit. NOTE: if permit applicati has been submitted, check here ☐
- ☐ Burning (except by EPD approved incineration method)
- ☐ Scavenging
- ☒ None of the above exists or is indicated by existing conditions

PERMITS (0, 15) Check appropriate blocks and state rating

Rati

A*	U*		
☒	☐	Site being operated in accordance with permit and design and operational plan.	1

REQUIREMENTS Check appropriate blocks and state individual rating

		1. Unloading (0,4)	
☒	☐	a. restricted to the working face or immediate vicinity	4
☒	☐	b. waste easily incorporated into the working face	
		2. Spreading and Compaction (0,4)	
☒	☐	a. waste spread into uniform layers, (generally two feet thick)	4
☒	☐	b. waste compacted to smallest practical volume	
☒	☐	c. size of working face minimized	
		3. Daily Cover (0,15)	
☒	☐	a. compacted, clean earth, 6" thickness (minimum)	15
☒	☐	b. placed over waste at the end of each working day **NOTE:** In all cases waste must be covered with earth at least every 24 hours	
		4. Intermediate Cover (0,4)	
☐	☒	a. compacted, clean earth, one foot thickness (minimum)	0
☐	☒	b. placed over each portion of any intermediate lift/area following completion of that portion	
☐		c. none required at this time	
		5. Final Cover (0,4)	
☒	☐	a. compacted, clean earth, two feet thickness (minimum)	4
☒	☐	b. placed over final lift not later than one month following placement of waste within that lift	
☐		c. none required at this time	

The northwestern side slopes of the site were severely eroded and the sediment/soil deposited at the base of the slopes produced the ponding as stated above. The silt fence at the underdrain outlet had failed. Soil buried the silt fence to one-half the silt fence height.

7. Mr. Cash stated that 100,000 cu. yds. of borrow from the adjacent property must be excavated by March, 1986 per contract agreement.

Conclusions:

1. The sediment basin must be rebuilt as per current EPD specifications.

2. The western boundary pipe can be substituted with a concrete drainage ditch.

3. The sediment basin must be enlarged; that is the depth increased.

4. Additional downdrains, erosion control structures and contouring are required at the site.

Recommendations and Follow up Required: A meeting has been scheduled with Mr. Watkins and his consultant for November 6, 1985.

Photographs: None

Reviewed by: 11/4/85

Attachments:

BAR:sf
c: Morgan V. Cantrell

County - Fulton

Date - December 11, 1985

Permit Number - 060-010D(SL)

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S W
ATLANTA, GEORGIA 30334

Commissioner

J. LEONARD LEDBETTER

SOLID WASTE MANAGEMENT SECTION
Telephone: 404-656-2836

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 94

Site Name Southern States - Bolton Road

PROHIBITED ACTS *If any of the following exists or is indicated, SLR = 0. Check.*

- ☐ Burning (except by approved incineration method)
- ☐ Scavenging
- ☑ None of the above exists or is indicated by existing conditions

PERMITS (0, 15) *Check appropriate blocks and state rating.* — Rating: 15

A*	U*	
☑	☐	Site permitted
		NOTE: If site is not permitted, but permit application has been submitted, check here ☐ .
☑	☐	Site being operated in accordance with permit, and design and operational plan

REQUIREMENTS *Check appropriate blocks and state individual rating.*

A*	U*		Rating
		1. Unloading (0, 4)	4
☑	☐	a. restricted to the working face or immediate vicinity	
☑	☐	b. wastes easily incorporated into the working face	
		2. Spreading (0, 4)	4
☑	☐	a. wastes spread into uniform layers (Layers 2 feet thick are generally recommended.)	
☑	☐	b. size of the working face minimized	
		3. Compaction (0, 4)	4
☑	☐	a. refuse compacted to smallest practical volume	
☑	☐	b. large bulky items properly compacted or excluded from disposal operation	
		4. Daily Cover (0, 15)	15
☑	☐	a. compacted	
☑	☐	b. clean earth	
☑	☐	c. 6 inch thickness (minimum)	
☑	☐	d. frequency of application not to exceed 24 hours	
		5. Intermediate Cover (0, 4)	4
☑	☐	a. compacted	
☑	☐	b. clean earth	
☑	☐	c. 1 foot thickness (minimum)	
☑	☐	d. placed over each portion of any intermediate lift following completion of that lift	
☐		e. none required at this time	
		6. Final Cover (0, 4)	4
☑	☐	a. compacted	
☑	☐	b. clean earth	
☑	☐	c. 2 foot thickness (minimum)	
☑	☐	d. placed over final lift not later than one month following placement of solid waste within that lift	
☐		e. none required at this time	

(over)

A*	U*		
☑	☐	7. Grading (0,4)	4
☑	☐	a. maintenance of existing eroded areas	
☑	☐	b. slope of surface of disposal area sufficient to maximize runoff and minimize erosion	
☑	☐	8. Drainage (0, 4)	0
☑	☐	a. adequate system of diversion ditches to minimize runoff onto the surface of the disposal area and/or drainage ditches to lower the water table	
☐	☒	b. adequate drainage provisions from the surface of the disposal area	
☐	☒	c. maintenance of drainage structures and ditches	
☑	☐	9. Continuity (0, 2)	2
☑	☐	a. all-weather access roads	
☑	☐	b. provisions for prompt equipment repair or replacement, when needed	
		10. Environmental Protection	
		a. Air (0, 2)	2
☑	☐	1) dust control	
☑	☐	2) odor control	
		b. Land (0, 2)	0
☑	☐	1) exposed rubbish and debris (except in designated reclamation areas)	
☐	☒	2) finished areas grassed or otherwise protected to prevent erosion	
		c. Water (0, 5)	5
☑	☐	1) leachate control (If samples taken, check here ☐ . Laboratory analyses should be attached to report.)	
☑	☐	2) potential floating debris found in or near drainage facilities	
☑	☐	3) placement of refuse above water table	
☑	☐	4) disposal area adequate distance from river, stream, or impoundment (normally 50 feet)	
☑	☐	11. Supervision (0, 4)	4
☑	☐	a. site under supervision of responsible individual	
☑	☐	b. responsible individual at the disposal site at all times during operation	
☑	☐	12. Limited Access (0, 15)	15
☑	☐	a. access limited to authorized entrances	
☑	☐	b. authorized entrances closed when the site is not in operation	
☑	☐	13. Litter Control (0, 4)	4
☑	☐	a. litter control program (fencing or other barriers)	
☑	☐	b. entire site policed daily	
☑	☐	14. Fire Protection (0, 4)	4
☑	☐	a. suitable means provided to prevent fires	
☑	☐	b. suitable means provided to control fires (Stockpiled earth is considered to be the most satisfactory fire fighting material.)	

ADDITIONAL STIPULATIONS (0, 4) — 4

(The following items are required for this disposal operation.)

A*	U*	
☑	☐	15. Informational and directional signs posted
☑	☐	16. Insect, rodent, bird, and animal control
☑	☐	17. Site communication (telephone, two-way radio)
☑	☐	18. Employee facilities (toilet and drinking water provided)
☑	☐	19. Operational records
☑	☐	20. Special provisions for immediate disposal of dead animals or highly putrescible wastes (eggs, entrails, offal, etc.)

Sanitary Landfill Rating (SLR) = 94 . SLR excluding prohibited acts _____ .
SLR must be greater than 85 to be an acceptable sanitary landfill.

A* denotes *acceptable* parameter.

U* denotes *unacceptable* parameter. (A single parameter for any requirement or the additional stipulations may be sufficient to preclude any score for that requirement or the additional stipulations.)

Comments:

1. I was accompanied by Mr. Larry Woodall.
2. Putrescible waste from previous day had adequate daily cover. Construction waste and other nonputrescible waste did not require covering at this time.
3. Complaints received regarding lack of daily cover, uncovered trucks coming in to dump and trash on the road were not justified during this inspection.
4. At the northeast corner the fabric fence must be extended to join the earthen berm to prevent runoff water from carrying silt off the site.
5. The small quantity of waste in the silt pond must be cleaned out.
6. Drainage pipe headwalls and collars around wells must be installed.
7. Complete the grassing of finished areas.

Time of inspection: 5:40 AM Weather conditions: Dark & Cool

Reason for inspection: ☐ Routine ☒ Other Complaints received

Discussed with:

	Name	Title	Address	Telephone
1)	Larry Woodall	Business Mgr., Southern States Landfill, Inc.	4696 Oakdale Road, Smyrna, Georgia 30080	435-9962
2)	Eric Cash	Equipment Operator	(Same as above)	
3)	Dwight Cash	Equipment Operator,	(Same as above)	
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	Raymond Cash	President	(Same as above)	
2)	W. Cedric Maddox	Director, Bureau of Sanitary Services,	City of Atlanta, 1540 Northside Drive, Atlanta, Georgia 30318	351-0289
3)	M. DeVon Bogue	Director of Environmental Health Services,	Fulton County Health Department, 99 Butler St. SE, Atlanta, GA 30303	572-2116

Photographs: ☐ yes ☒ no; Total number _____; Location filed _____

Inspected by: Philip H. Eve, Jr.

Reviewed by: Morgan V. Cantrell Review date: 12-23-85

Attachments: None

Georgia Department of Natural Resources
270 Washington Street, S.W., Room 825, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

Fulton Co.
Southern States -
Bolton Rd. SL

December 23, 1985

Mr. Raymond M. Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill; Fulton County

Dear Mr. Cash:

On December 11, 1985 the subject site was inspected for compliance with the Design and Operational Plan and the Conditions for Sanitary Landfill Operation included in the permit. I was accompanied by Mr. Larry Woodall. Conditions were discussed with him, Mr. Eric Cash and Mr. Dwight Cash and are delienated in the enclosed copy of the evaluation report.

Should you have any questions concerning the report or need technical assistance in solid waste management, feel free to call 404/656-2836.

Sincerely,

Philip H. Eve, Jr.

Philip H. Eve, Jr.
Environmental Specialist
Municipal Solid Waste Control Unit

PHE:sf
Enclosure: Evaluation Report dated 12/11/85
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

J Barbara - chf - file

Georgia Department of Natural Resources
270 Washington Street, S.W., Room 825, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

Fulton Co.
Southern States - Bolton Rd
SL

December 24, 1985

Mr. Raymond M. Cash, President
Southern States Landfill, Inc.
4697 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Fulton Co. - Southern States, Bolton Road, Sanitary Landfill

Dear Mr. Cash:

This letter is in reference to your written request of November 6, 1985 to postpone installation of the required pipeline, Pipeline 1, at the lower, western boundary of the subject site.

During a meeting held in the Environmental Protection Division (EPD) offices on October 9, 1985, attended by you, Mr. Frank Gudger of Jordan, Jones and Goulding, Inc., Mr. Leon Watkins, Site Manager, and Mr. Randolph D. Williams and Ms. Barbara Ross of my staff, several modifications to the subject site were discussed. The modifications included stabilization of severely eroded side slopes, the addition of a downdrain along the northern site boundary and vertical expansion of disposal operations that would encompass the area above Pipeline 1.

Further, on October 25, 1985, Ms. Ross observed a drainage ditch located along the lower western boundary. Although this excavated ditch can provide adequate surface water runoff drainage, the expansion of disposal operations into areas adjoining the drainage ditch would impede the pipeline installation.

Based on the above information and the projected date of April, 1986 for impending disposal operations in the vicinity of the pipeline, approval is granted for postponing of the required pipeline installation until April, 1986. However, an unanticipated start-up of disposal operations in areas adjoining the excavated ditch would necessitate the immediate installation of the pipeline (see enclosed schematic). The pipeline installation might then precede completion of the proposed development of modification plans.

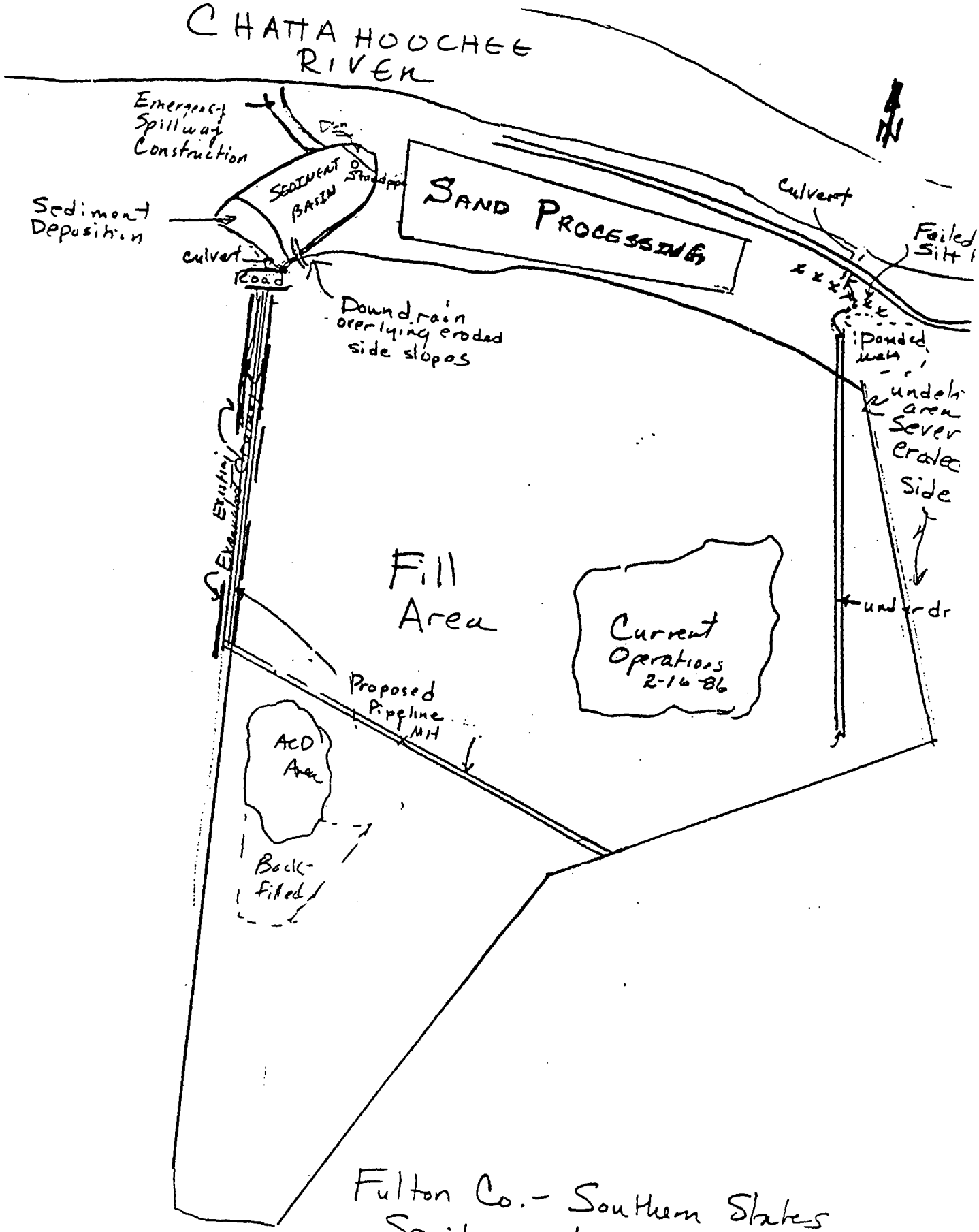
Should you have questions in this regard, please contact me at 404/656-2836.

Sincerely,

James W. Dunbar

James W. Dunbar
Program Manager
Municipal Solid Waste Control Program

JWD:brf
Enclosure
c: Randolph D. Williams
Morgan V. Cantrell
W. Cedric Maddox
File (SWR)



Fulton Co. - Southern Slates
Sanitary Landfill
Schematic
nts

Fulton (Atlanta)
Southern States

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

June 19, 1986

DRAFT

Mr. Leon Walkins
Vice President Operations
Southern States Landfill, Inc.
4596 Oakdale Road
Smyrna, Georgia 30080

RE: Asbestos Disposal

Dear Mr. Walkins:

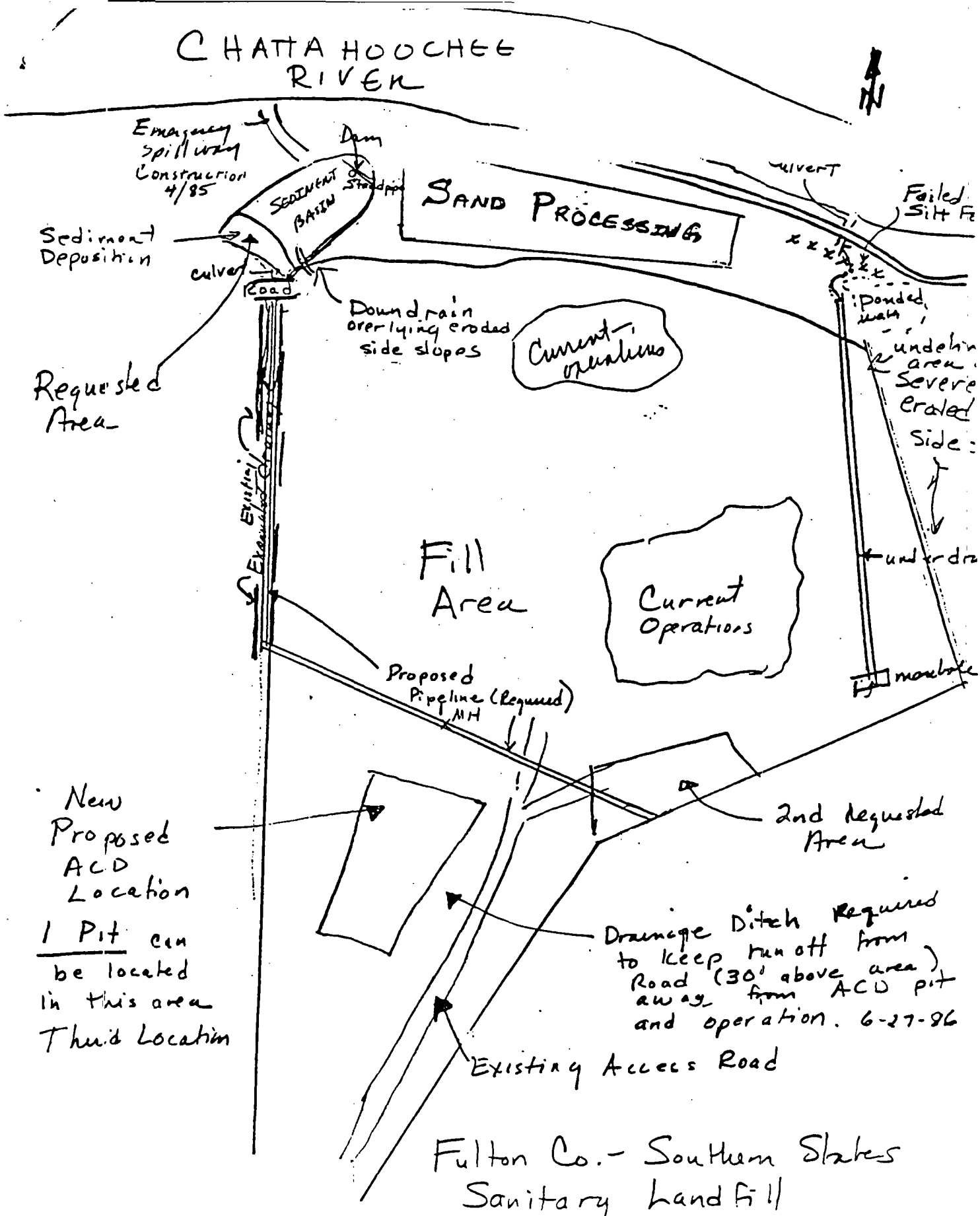
Please find attached information on asbestos disposal requirements. Please contact Mr. James W. Dunbar (404/656-2836) should you have questions on Georgia asbestos disposal regulations and/or disposal requirements.

Sincerely,

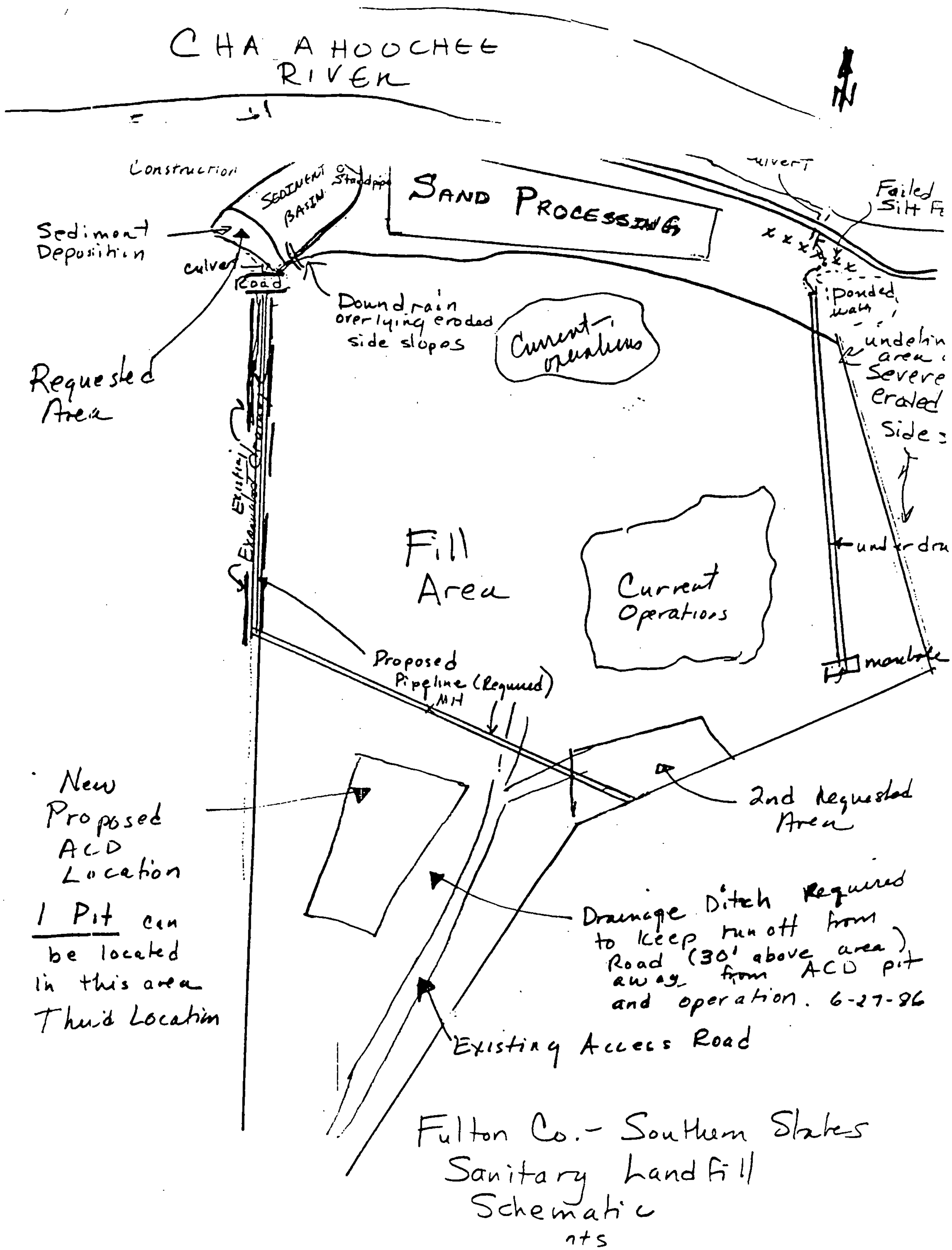
Marvin Bradford

Marvin Bradford
Environmental Specialist
Air Pollution Compliance Program

MB:nj
Attachment
cc: James W. Dunbar



Fulton Co.- Southern States
Sanitary Landfill
Schematic
nts



CHA AHOOCHEE RIVER
N
Construction
SEDIMENT BASIN
Standpipe
SAND PROCESSING
Culvert
Failed Silt F
Sediment Deposition
culvert
Road
Downdrain overlying eroded side slopes
Current operations
ponded water
Requested Area
Existing Excavated
Fill Area
Current Operations
underdrain
Proposed Pipeline (Required)
MH
manhole
New Proposed ACD Location
1 Pit can be located in this area
Third Location
2nd Requested Area
Drainage Ditch Required to keep run off from Road (30' above area) away from ACD pit and operation. 6-27-86
Existing Access Road
Fulton Co. - Southern States Sanitary Landfill Schematic
nts

Fulton County
Sou. States - Bolton Rd.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

July 18, 1986

TRIP REPORT

Site Name and Location: Fulton Co. - Southern States Sanitary Landfill; Atlanta

Trip by: Barbara A. Ross, P. E., Environmental Engineer
Permit Review Unit

Accompanied by: None

Date of Trip: June 27, 1986

Officials Contacted: Raymond Cash, President, Southern States LF, Inc.
Tyrone C. Williams, Consultant, Williams and Russell Engineers

Reference: Trip report of June 23, 1986

Comments: (See schematic)

1. The third location proposed for ACD operations is acceptable. However, a drainage swale or ditch is required above the area to direct surface water runoff from the road to the sediment basin or existing manhole.

Conclusions:

1. Only one ACD can be located in this proposed area because of the limited dimensions of the area due to the shear face at the southeastern boundary of the area, the property line at the western boundary, and disposal operations at the northern boundary.

2. A drainage structure at the top of the shear face must be excavated to divert runoff from the ACD location.

Recommendations and Follow-up Required: A letter will be sent to Mr. Cash approving the third site location with the limitations stated above.

Photogrpahs: None

Reviewed by: Harold C. Gillespie

Attachments: Site Schematic

BAR:sf
c: Morgan V. Cantrell

(Fulton - Atlanta)
Southern States - Bolton Rd.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

July 18, 1986

Mr. Raymond M. Cash, President
Southern States LF, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Fulton Co. - Southern States Sanitary Landfill, Air Curtain Destructor (ACD)

Dear Mr. Cash:

Based on the recent site investigation at the subject site by a member of my staff, the alternate location requested (see attached map) is acceptable for operation of an Air Curtain Destructor (ACD).

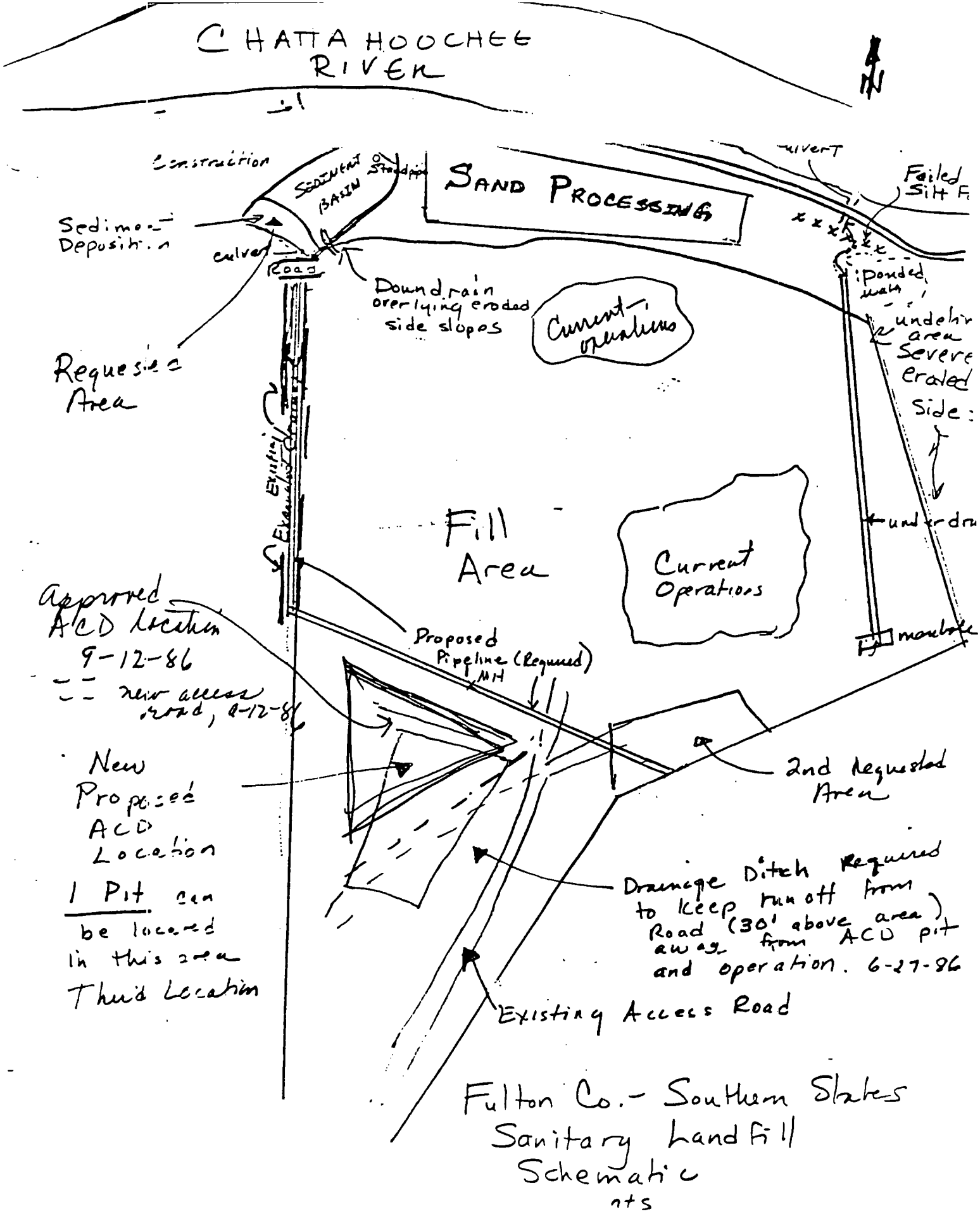
After review and approval of an ACD Design and Operational Plan, a Solid Waste Handling Permit can be issued. Enclosed is form SWM-21, for use in developing the plan.

If you have any questions in this regard, do not hesitate to contact Ms. Barbara A. Ross of my staff at 404/656-2836.

Sincerely,

James W. Dunbar
Program Manager
Solid Waste Management Program

JWD:brf
Enclosure
c: Morgan V. Cantrell
Tyrone Williams
File (SWR)


CHATTAHOOCHEE RIVER
N
Construction
Sediment Deposition
SEDIMENT BASIN
Standpipe
SAND PROCESSING
culvert
Road
Culvert
Failed Silt F
Ponded water
Requested Area
Downdrain overlying eroded side slopes
Current operations
undeveloped area
Severe eroded Side
Existing Entrance
Fill Area
Current Operations
underdrain
manhole
Approved ACD location 9-12-86
new access road, 9-12-86
Proposed Pipeline (Required)
MH
New Proposed ACD Location
1 Pit can be located in this area
Third Location
2nd Requested Area
Drainage Ditch Required to keep run off from Road (30' above area) away from ACD pit and operation. 6-27-86
Existing Access Road
Fulton Co. - Southern Slopes
Sanitary Landfill
Schematic
nts

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

July 18, 1986

Mr. Raymond M. Cash, President
Southern States LF, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Fulton Co. - Southern States Sanitary Landfill, Air Curtain Destructor (ACD)

Dear Mr. Cash:

Based on the recent site investigation at the subject site by a member of my staff, the alternate location requested (see attached map) is acceptable for operation of an Air Curtain Destructor (ACD).

After review and approval of an ACD Design and Operational Plan, a Solid Waste Handling Permit can be issued. Enclosed is form SWM-21, for use in developing the plan.

If you have any questions in this regard, do not hesitate to contact Ms. Barbara A. Ross of my staff at 404/656-2836.

Sincerely,

James W. Dunbar
Program Manager
Solid Waste Management Program

JWD:brf
Enclosure
c: Morgan V. Cantrell
Tyrone Williams
File (SWR)

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

July 7, 1986

TRIP REPORT

Site Name and Location: Fulton Co. -Southern States Sanitary Landfill; Atlanta

Trip by: Barbara A. Ross, P. E., Environmental Engineer
Permit Review Unit

Accompanied by: None

Date of Trip: 6/23/86

Officials Contacted: Raymond Cash, President
Southern States Landfills

Reference: Receipt of application on 6/17/86 for a permit to operate an Air Curtain Destructor

Comments: (See Schematic)

1 The ACD location elevations requested in the submitted application, are not as shown in the D & O Plan. Excavation of the location is ongoing. Mr. Cash plans to use the final borrow area as a debris only disposal trench or pit.

2. Mr. Cash then requested an ACD location below the pipeline 2 inlet where soil is also borrowed for cover material.

Conclusions:

1. The area applied for is not acceptable for an ACD pit. The pit must be excavated in virgin soil.

2. The second location is too small, disposal operations will encroach on the ACD operations and the ACD operations will impede surface water runoff to the existing pipeline 1 Manhole. After discussion with Mr. Morgan V. Cantrell, there is a question as to whether wastes are disposed of in close proximity to this requested areas.

Recommendations and Follow up Required: A third location as per the D & O Plan may be acceptable. A second site investigation will be conducted on 6/27/86.

Photographs: None

Reviewed by: David C. Gillespie

Attachments: Site Schematic

BAR:sf
c: Morgan V. Cantrell

SWR CT

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

Fulton Co.
Southern States - Bolt
Rd ACD

July 18, 1986

TRIP REPORT

Site Name and Location: Fulton Co. - Southern States Sanitary Landfill; Atlanta

Trip by: Barbara A. Ross, P. E., Environmental Engineer
Permit Review Unit

Accompanied by: None

Date of Trip: June 27, 1986

Officials Contacted: Raymond Cash, President, Southern States LF, Inc.
Tyrone C. Williams, Consultant, Williams and Russell Engineers

Reference: Trip report of June 23, 1986

Comments: (See schematic)

1. The third location proposed for ACD operations is acceptable. However, a drainage swale or ditch is required above the area to direct surface water runoff from the road to the sediment basin or existing manhole.

Conclusions:

1. Only one ACD can be located in this proposed area because of the limited dimensions of the area due to the shear face at the southeastern boundary of the area, the property line at the western boundary, and disposal operations at the northern boundary.

2. A drainage structure at the top of the shear face must be excavated to divert runoff from the ACD location.

borrow type cut face

Recommendations and Follow-up Required: A letter will be sent to Mr. Cash approving the third site location with the limitations stated above.

Photogrpahs: None

Reviewed by: Harold C. Gillespie

Attachments: Site Schematic

BAR:sf
c: Morgan V. Cantrell

Fulton (Atlanta)
Southern States - Bolton Rd.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

September 15, 1986

TRIP REPORT

Site Name and Location: Fulton Co. - Southern States SL, ACD P(Inc); Atlanta

Trip by: Barbara A. Ross, P. E., Environmental Engineer
Permit Review Unit

Accompanied by: None

Date of Trip: September 12, 1986

Officials Contacted: Tyrone Williams, Consultant
Williams, Russell and Johnson Engineers

Reference: Receipt of D & O Plan on 8/27/86

Comments: (See Schematic)

1. The ACD location shown in the D & O Plan is not the location approved on 7/18/86.

2. The ACD location shown in the plan is contiguous to the approved area. The approved area soil will be used for cover material in the near future (1-1½ years) per Mr. Williams' calculations.

3. Parts of the ACD location requested in the plan can be adequately drained to allow for ACD operations.

Conclusions: A triangular area of the plan ACD location can be approved for ACD operations.

Recommendations and Follow up Required: The newly approved area will be designated in the marked-up D & O plan and returned to the consultant for plan revision.

Photographs: None

Reviewed by: Harold C Silley

Attachments: Site Schematic

BAR:sf
c: Morgan V. Cantrell

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

September 15, 1986

TRIP REPORT

Site Name and Location: Fulton Co. - Southern States SL, ACD P(Inc); Atlanta

Trip by: Barbara A. Ross, P. E., Environmental Engineer
Permit Review Unit

Accompanied by: None

Date of Trip: September 12, 1986

Officials Contacted: Tyrone Williams, Consultant
Williams, Russell and Johnson Engineers

Reference: Receipt of D & O Plan on 8/27/86

Comments: (See Schematic)

1. The ACD location shown in the D & O Plan is not the location approved on 7/18/86.

2. The ACD location shown in the plan is contiguous to the approved area. The approved area soil will be used for cover material in the near future (1-1½ years) per Mr. Williams' calculations.

3. Parts of the ACD location requested in the plan can be adequately drained to allow for ACD operations.

Conclusions: A triangular area of the plan ACD location can be approved for ACD operations.

Recommendations and Follow up Required: The newly approved area will be designated in the marked-up D & O plan and returned to the consultant for plan revision.

Photographs: None

Reviewed by: Harold C Silley

Attachments: Site Schematic

BAR:sf
c: Morgan V. Cantrell

Exhibit K

.a Department of Natural Resources

.er Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

SOLID WASTE MANAGEMENT PROGRAM
Telephone: 404/656-2836

County Fulton (Atlanta)

Date September 25, 1986

Permit Number 060-010D(SL)

DISPOSAL SITE EVALUATION REPORT (SANITARY LANDFILL)

SANITARY LANDFILL RATING (SLR) = 75

Site Name Southern States - Bolton Road

PROHIBITED ACTS *If any of the following exists or is indicated, SLR = 0. Check.*

- [ ] Burning (except by approved incineration method)
- [ ] Scavenging
- [X] None of the above exists or is indicated by existing conditions

PERMITS (0, 15) *Check appropriate blocks and state rating.* — Rating: 0

A*	U*	
[X]	[ ]	Site permitted
		NOTE: If site is not permitted, but permit application has been submitted, check here [ ].
[ ]	[X]	Site being operated in accordance with permit, and design and operational plan

REQUIREMENTS *Check appropriate blocks and state individual rating.*

A*	U*		Rating
		1. Unloading (0, 4)	4
[X]	[ ]	a. restricted to the working face or immediate vicinity	
[X]	[ ]	b. wastes easily incorporated into the working face	
		2. Spreading (0, 4)	4
[X]	[ ]	a. wastes spread into uniform layers (Layers 2 feet thick are generally recommended.)	
[X]	[ ]	b. size of the working face minimized	
		3. Compaction (0, 4)	4
[X]	[ ]	a. refuse compacted to smallest practical volume	
[X]	[ ]	b. large bulky items properly compacted or excluded from disposal operation	
		4. Daily Cover (0, 15)	15
[X]	[ ]	a. compacted	
[X]	[ ]	b. clean earth	
[X]	[ ]	c. 6 inch thickness (minimum)	
[X]	[ ]	d. frequency of application not to exceed 24 hours	
		5. Intermediate Cover (0, 4)	0
[X]	[ ]	a. compacted	
[X]	[ ]	b. clean earth	
[ ]	[X]	c. 1 foot thickness (minimum)	
[ ]	[X]	d. placed over each portion of any intermediate lift following completion of that lift	
[ ]		e. none required at this time	
		6. Final Cover (0, 4)	4
[X]	[ ]	a. compacted	
[X]	[ ]	b. clean earth	
[X]	[ ]	c. 2 foot thickness (minimum)	
[X]	[ ]	d. placed over final lift not later than one month following placement of solid waste within that lift	
[ ]		e. none required at this time	

(over)

A*	U*		
		7. Grading (0,4)	4
☒	☐	a. maintenance of existing eroded areas	
☒	☐	b. slope of surface of disposal area sufficient to maximize runoff and minimize erosion	
		8. Drainage (0, 4)	0
☒	☐	a. adequate system of diversion ditches to minimize runoff onto the surface of the disposal area and/or drainage ditches to lower the water table	
☐	☒	b. adequate drainage provisions from the surface of the disposal area	
☐	☒	c. maintenance of drainage structures and ditches	
		9. Continuity (0, 2)	2
☒	☐	a. all-weather access roads	
☒	☐	b. provisions for prompt equipment repair or replacement, when needed	
		10. Environmental Protection	
		a. Air (0, 2)	2
☒	☐	1) dust control	
☒	☐	2) odor control	
		b. Land (0, 2)	0
☒	☐	1) exposed rubbish and debris (except in designated reclamation areas)	
☐	☒	2) finished areas grassed or otherwise protected to prevent erosion	
		c. Water (0, 5)	5
☒	☐	1) leachate control (if samples taken, check here ☐ . Laboratory analyses should be attached to report.)	
☒	☐	2) potential floating debris found in or near drainage facilities	
☒	☐	3) placement of refuse above water table	
☒	☐	4) disposal area adequate distance from river, stream, or impoundment (normally 50 feet)	
		11. Supervision (0, 4)	4
☒	☐	a. site under supervision of responsible individual	
☒	☐	b. responsible individual at the disposal site at all times during operation	
		12. Limited Access (0, 15)	15
☒	☐	a. access limited to authorized entrances	
☒	☐	b. authorized entrances closed when the site is not in operation	
		13. Litter Control (0, 4)	4
☒	☐	a. litter control program (fencing or other barriers)	
☒	☐	b. entire site policed daily	
		14. Fire Protection (0, 4)	4
☒	☐	a. suitable means provided to prevent fires	
☒	☐	b. suitable means provided to control fires (Stockpiled earth is considered to be the most satisfactory fire fighting material.)	

ADDITIONAL STIPULATIONS (0, 4) — 4

(The following items are required for this disposal operation.)

A*	U*	
☒	☐	15. Informational and directional signs posted
☒	☐	16. Insect, rodent, bird, and animal control
☒	☐	17. Site communication (telephone, two-way radio)
☒	☐	18. Employee facilities (toilet and drinking water provided)
☒	☐	19. Operational records
☒	☐	20. Special provisions for immediate disposal of dead animals or highly putrescible wastes (eggs, entrails, offal, etc.)

Sanitary Landfill Rating (SLR) = 75 . SLR excluding prohibited acts _____.
SLR must be greater than 85 to be an acceptable sanitary landfill.

A* denotes *acceptable* parameter.

U* denotes *unacceptable* parameter. (A single parameter for any requirement or the additional stipulations may be sufficient to preclude any score for that requirement or the additional stipulations.)

A*	U*		
		7. Grading (0,4)	4
☒	☐	a. maintenance of existing eroded areas	
☒	☐	b. slope of surface of disposal area sufficient to maximize runoff and minimize erosion	
		8. Drainage (0, 4)	0
☒	☐	a. adequate system of diversion ditches to minimize runoff onto the surface of the disposal area and/or drainage ditches to lower the water table	
☐	☒	b. adequate drainage provisions from the surface of the disposal area	
☐	☒	c. maintenance of drainage structures and ditches	
		9. Continuity (0, 2)	2
☒	☐	a. all-weather access roads	
☒	☐	b. provisions for prompt equipment repair or replacement, when needed	
		10. Environmental Protection	
		a. Air (0, 2)	2
☒	☐	1) dust control	
☒	☐	2) odor control	
		b. Land (0, 2)	0
☒	☐	1) exposed rubbish and debris (except in designated reclamation areas)	
☐	☒	2) finished areas grassed or otherwise protected to prevent erosion	
		c. Water (0, 5)	5
☒	☐	1) leachate control (If samples taken, check here ☐ . Laboratory analyses should be attached to report.)	
☒	☐	2) potential floating debris found in or near drainage facilities	
☒	☐	3) placement of refuse above water table	
☒	☐	4) disposal area adequate distance from river, stream, or impoundment (normally 50 feet)	
		11. Supervision (0, 4)	4
☒	☐	a. site under supervision of responsible individual	
☒	☐	b. responsible individual at the disposal site at all times during operation	
		12. Limited Access (0, 15)	15
☒	☐	a. access limited to authorized entrances	
☒	☐	b. authorized entrances closed when the site is not in operation	
		13. Litter Control (0, 4)	4
☒	☐	a. litter control program (fencing or other barriers)	
☒	☐	b. entire site policed daily	
		14. Fire Protection (0, 4)	4
☒	☐	a. suitable means provided to prevent fires	
☒	☐	b. suitable means provided to control fires (Stockpiled earth is considered to be the most satisfactory fire fighting material.)	

ADDITIONAL STIPULATIONS (0, 4) — 4

(The following items are required for this disposal operation.)

A*	U*	
☒	☐	15. Informational and directional signs posted
☒	☐	16. Insect, rodent, bird, and animal control
☒	☐	17. Site communication (telephone, two-way radio)
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☒	☐	19. Operational records
☒	☐	20. Special provisions for immediate disposal of dead animals or highly putrescible wastes (eggs, entrails, offal, etc.)

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SLR must be greater than 85 to be an acceptable sanitary landfill.

A* denotes *acceptable* parameter.

U* denotes *unacceptable* parameter. (A single parameter for any requirement or the additional stipulations may be sufficient to preclude any score for that requirement or the additional stipulations.)

Comments:

1. I was accompanied on the inspection by Mr. Leon Watkins.
2. Wastes and dirt were badly "churned up" in a former wet weather area.
3. Wastes had been disposed along the railroad on property that is not on the approved D & O Plan.
4. Install Pipeline #1 now. (Evidently no effort has been made to get the pipeline deleted).
5. Sediment barriers were down on north side of site.
6. Repair concrete cap on well #2.
7. Water samples are due now (9-86).

Time of inspection: 9:45 AM Weather conditions: Cloudy & Warm

Reason for inspection: [X] Routine [ ] Other

Discussed with:

	Name	Title	Address	Telephone
1)	Leon Watkins	Site Supervisor, Southern States Landfill, Inc.	4696 Oakdale Rd., Smyrna, GA 30080	799-1273
2)				
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	Raymond Cash	President (Same as above)		435-9962
2)	W. Cedric Maddox	Director, Bureau of Sanitary Services,	1540 Northside Dr., Atlanta, GA 30318	351-0289
3)	M. DeVon Bogue	Director of Environmental Health Services,	Fulton County Health Department, 99 Butler St. SE, Atlanta, GA 30303	572-2116

Photographs: [X] yes [ ] no; Total number 1; Location filed Atlanta Film File

Inspected by: Megan K. Cantrell

Reviewed by: James W. Dunlap Review date: 10/2/86

Attachments: None

Exhibit 5

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division
(404) 656-4713

October 2, 1986

Talton Co.
Southern States -
Bolton Rd. SL

Mr. Raymond Cash, President
Southern States Landfill
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

An inspection of the above subject site was conducted on September 25, 1986 in the company of Mr. Leon Watkins. Violations noted were discussed with him and are delinated in the enclosed evaluation report.

This is the second consecutive less than acceptable rating. The recent practice of disposing wastes off permitted property must be discontinued. Pipeline #1 must be installed as per the approved D & O Plan.

A reinspection will be scheduled in about 30 days. By then you should have the water sample report and the pipeline under way.

Should you have any questions concerning the above or desire technical assistance in solid waste handling, do not hesitate to call.

Sincerely,

Morgan V. Cantrell

Morgan V. Cantrell
Unit Coordinator
Solid Waste Control Unit

MVC:sf
Enclosure: Evaluation Report dated 9/25/86
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

Comments:

1. I was accompanied on the inspection by Mr. Leon Watkins.
2. Wastes and dirt were badly "churned up" in a former wet weather area.
3. Wastes had been disposed along the railroad on property that is not on the approved D & O Plan.
4. Install Pipeline #1 now. (Evidently no effort has been made to get the pipeline deleted).
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Reason for inspection: [X] Routine [ ] Other

Discussed with:

	Name	Title	Address	Telephone
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2)				
3)				
4)				

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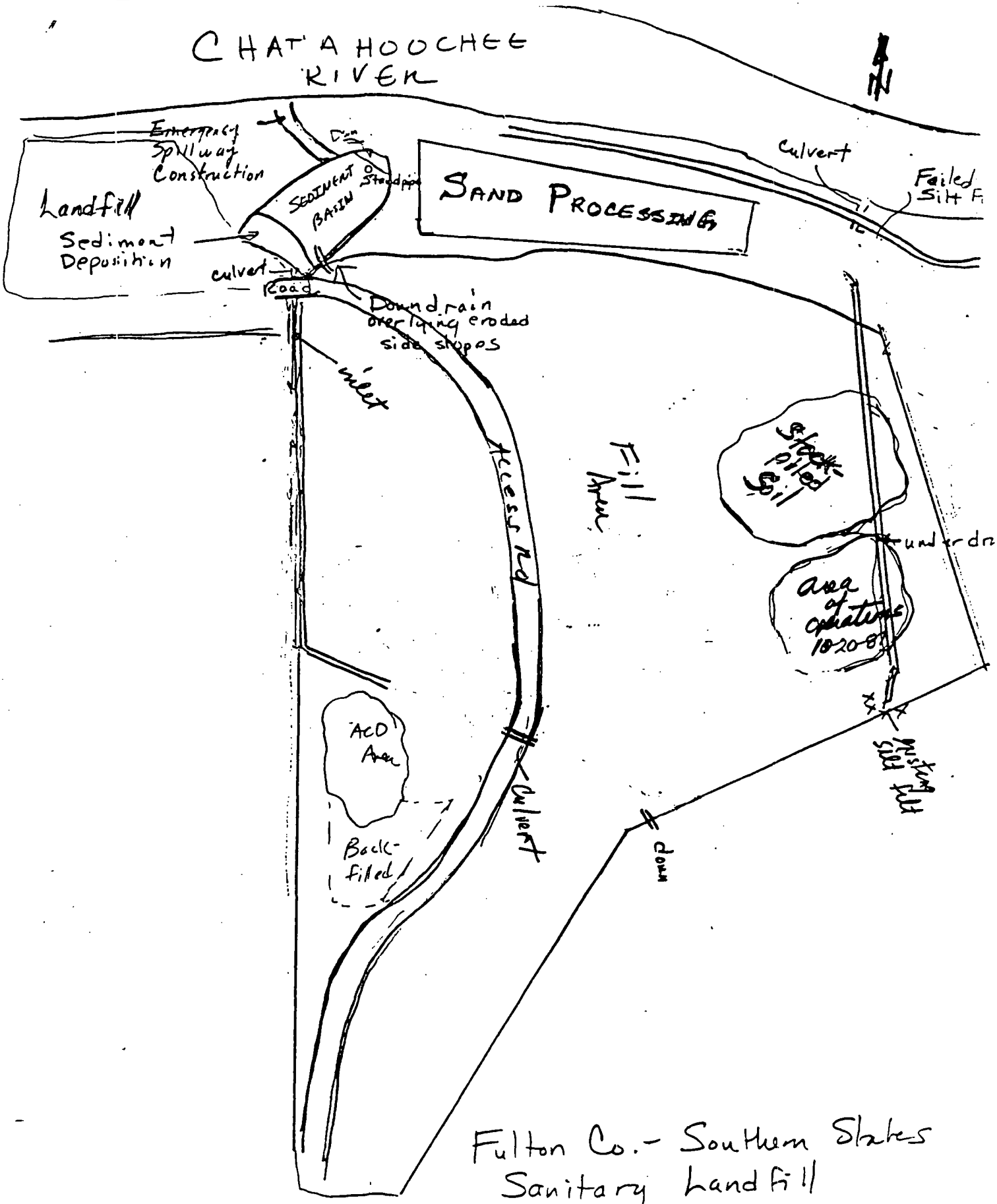
1)	Raymond Cash	President (Same as above)		435-9962
2)	W. Cedric Maddox	Director, Bureau of Sanitary Services,	1540 Northside Dr., Atlanta, GA 30318	351-0289
3)	M. DeVon Bogue	Director of Environmental Health Services, Fulton County Health Department	99 Butler St. SE, Atlanta, GA 30303	572-2116

Photographs: [X] yes [ ] no; Total number 1; Location filed Atlanta Film File

Inspected by: Morgan V. Cantrell

Reviewed by: James W. Dunlap Review date: 10/2/86

Attachments: None



Fulton Co. - Southern Slopes
Sanitary Landfill
Schematic
nts

Submission of results

All analytical results including a brief narrative description of the following must be submitted to the Municipal Solid Waste Control Program, EPD, for review:

1. Physical condition of well or surface monitoring point

2. Sample container and procedures

3. Sample preservation

4. Custody, transport and storage history

5. Deviation from accepted laboratory/analytical procedures.

For additional information regarding water monitoring, see "Procedures Manual for Groundwater Monitoring at Solid Waste Disposal Facilities", USEPA/530/SW-611, August 1977.

Southern States

LAW ENGINEERING TESTING COMPANY
(geotechnical, environmental & construction materials consultants)
2749 DELK ROAD, S.E.
MARIETTA, GEORGIA 30067
(404) 952-9005

May 25, 1984

Mr. Taz Anderson
Southern States L. F., Inc
2931 Paces Ferry Road
Atlanta, Georgia 30339

Subject: Recommendations for Ground-Water Monitoring Wells, Proposed Landfill Near Bolton Road, Atlanta, Georgia LetCo Job No. MT4269

Dear Mr. Anderson:

The purpose of this letter is to recommend the location and construction details for a set of ground-water monitoring wells for a new landfill to be located north of Bolton Road and south of the Chattahoochee River in northwest Atlanta. These recommendations are based on a review of subsurface conditions at the site, on a recent reconnaissance of the site, and on Law Engineering's previous experience with ground-water monitoring at a number of similar sites. Ten borings previously drilled at this site by Law Engineering were reviewed as part of our study. A copy of these logs is attached.

The general location of the site and the location of eight of the ten previously drilled soil test borings are shown on a 1975 grading plan prepared by Watts and Browning Engineers (see packet for map). (The locations for borings 1 and 5 could not be located on this map.) Most of the area included within the site lies between elevation 770 and 780 feet msl although the southern periphery lies along a bluff approximately 60 feet higher.

The boring logs show that the subsurface material over most of the site consists of fill placed on alluvium, which, in turn, overlies partially weathered rock and rock. Rock appeared to be at or below elevation 760 feet near the center of the site (B-6), to be considerably below this elevation near the river (B-1, B-2, B-3, B-4) and to be above elevation 800 feet on the bluff. At the higher elevations on the bluff rubble fill, refuse from the Atlanta Brick and Tile Company, occupied the first several feet beneath the surface. Below

this fill, dense fine silt and sand was encountered. This sand overlies partially weathered rock between elevations 750 and 770 feet msl, while no ground water was encountered to the depths reached by drilling on the bluff.

The recommended locations of the ground-water monitoring wells are shown on the 1975 grading plan. These locations are only approximate and should be located in the field to avoid difficult drilling which might result if the wells are located on thick zones of rubble fill. Two monitoring wells (MW-1 and MW-2) are shown up gradient of the landfill. The purpose of these wells is to determine the quality of the ground water before it reaches the landfill. Three monitoring wells are shown in an area between the landfill and the Chattahoochee River. These wells will intersect the ground water which has flowed beneath the landfill. By sampling and testing the ground water from these wells it should be possible to determine if the landfill is impacting the quality of the ground water. By examining the water quality in both up gradient and down gradient wells it should be possible to determine the net effect, if any, of the proposed landfill.

We recommend that the wells be constructed as shown in Figures 1 and 2. The water quality monitoring wells should be constructed of 2-inch inside diameter (I.D.) PVC pipe having threaded joints. The wells should be installed in soil test boreholes. Based on our reconnaissance and the available test boring information, we have estimated that ground water is present in the lower elevations at a depth of about ten to fifteen feet beneath the existing ground surface. To advance the boreholes for the down gradient wells, hollow stem augers could be used. In the up gradient wells the ground water appears to be below the top of rock. Therefore, rock coring will probably be required to construct these wells. The screen section of each well should be installed at a depth consistent with the subsurface conditions and ground water level.

After each well is installed, it should be developed. Developing is a term used to describe the operation of cleaning the silty water from the inside of a well, flushing the screen sections, and improving the efficiency of the sand pack (filter media). The water quality monitoring wells should be developed using one of the following methods, depending on the depth to the ground water:

1. Pumping from the surface using a gasoline driven pump,

2. Bailing,

3. Air lift development using an air compressor.

When the installation and development of the wells are completed, the locations with respect to prominent surrounding features should be determined and the elevation of the datum established on the top of the risers.

If you have any questions about these recommendations we would be glad to discuss them with you.

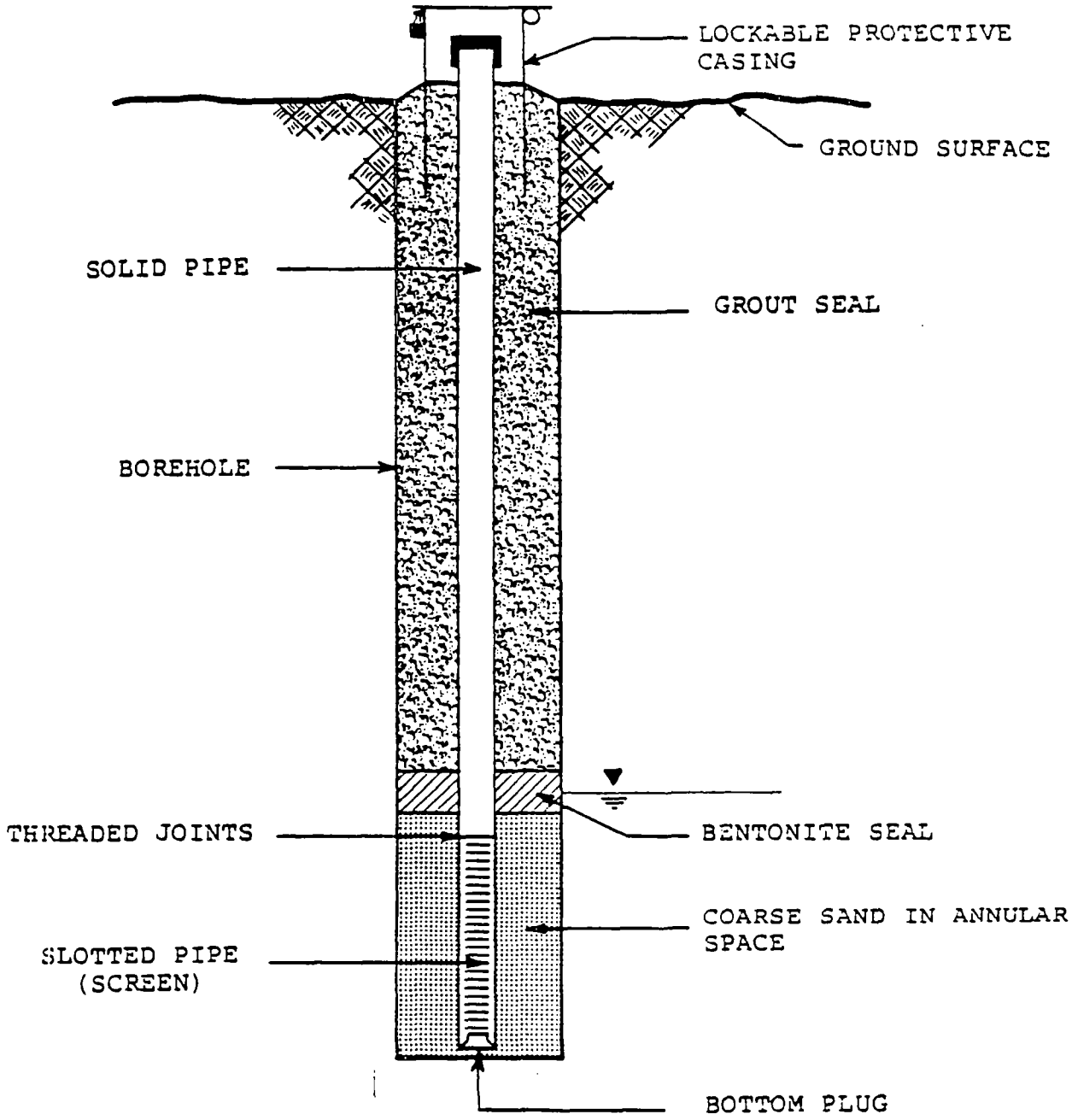
Sincerely,

LAW ENGINEERING TESTING COMPANY

Thomas L. Cross, P. E.
Senior Hydrologist

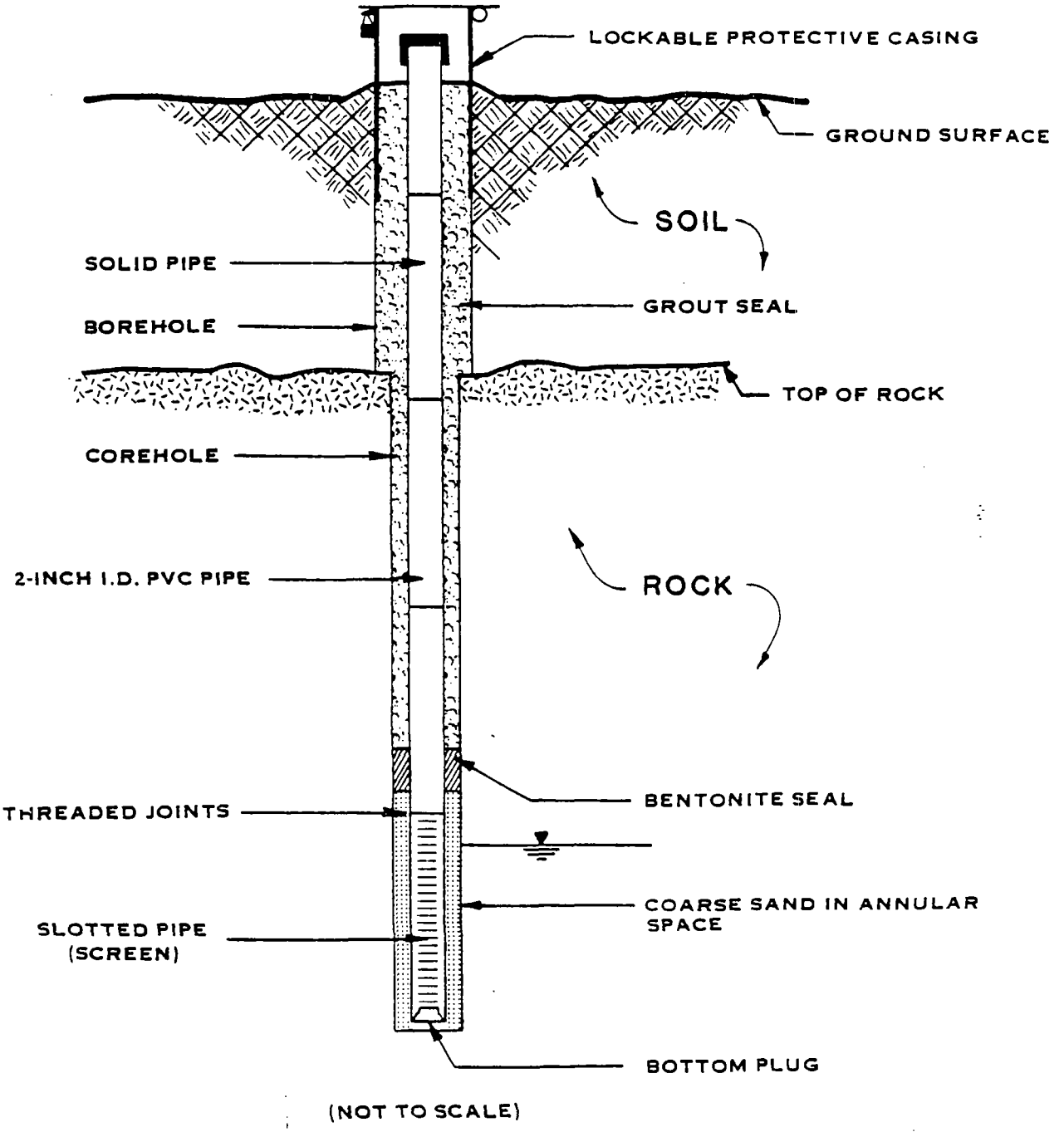
James R. Wallace, Sc.D., P. E.
Chief Hydrologist

TLC:JRW:vb
Enclosures



(NOT TO SCALE)

SOUTHERN STATES L. F. INC	LAW ENGINEERING TESTING COMPANY MARIETTA, GEORGIA	SCHEMATIC OF A TYPE II WATER QUALITY MONITORING WELL JOB_NO. MT4269 FIGURE 1



SOUTHERN STATES L. F. INC	LAW ENGINEERING TESTING COMPANY MARIETTA, GEORGIA	TYPE II WATER QUALITY MONITORING WELL INSTALLED IN ROCK JOB NO. MT4269 FIGURE 2

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD R

JOB NAME WATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO 2

DATE 3/21/75 WEATHER WARM GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE			
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"
0'		(FILL) STF, GRN, SA, SI, CL FILL MATERIAL	1	0/1.5	5	5
		(FILL) SFT, BLK-BRN-WOOD - SI CL FILL MATERIAL	2	5'	4	3
		(FILL) WOOD PAPER, ETC. FILL MATERIAL	3	10'	8	4
	18.6"	(FILL) LOOSE RAGS, WOOD, BLK FI SE-SA	4	15'	3	4
18.6"		(ALLUV.) V. SOFT GRN, FI, SA, SI, CL	5	20'	3	2
		Hole Elev. 7787				

WATER LEVEL NGW AT TOB

WATER LEVEL 6' AT ~~24 HOURS~~ 8 HOURS.

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

HOLLOW STEM AUGERS

18.5' FILL

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 3' O.D. SPLIT BARREL

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD

JOB NAME WATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO 5

DATE 3/21/75 WEATHER WARM & CLEAR GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE *			
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"
0'	7'	TOP SOIL - LOOSE BRN MED SA	1	0'/1.5	3	3
		(FILL) SOFT WOOD, MED SA	2	5'	2	2
7'	18'	(ALUV) SOFT BRN MED SI SA	3	10'	2	2
		(ALUV.) SOFT BRN MED SI SA	4	15'	1	2
18'		(POSS. ALUV.) LOOSE BRN-LT. BRN MED SI SA	5	20'	2	3
		W/SOME TRACES OF GRAVEL				
		B.T. @ 20'				
		Hole Elev. 759.3				

WATER LEVEL 11' AT TOB

WATER LEVEL 8 ~~HOURS~~ @ 8 hours.

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

1 - HOLLOW STEM AUGERS

2 - NOTE: SOIL CAME UP SURFACE, ENCOUNTERED H_2O @ 11 ft.

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY — TEST BORING FIELD RE

JOB NAME WATTS – BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING ____ HRS. MOVING ____ BORING NO E

DATE 3/21/75 WEATHER WARM & NICE GROUND SURFACE ELEVATION ____

SOIL STRATA			SAMPLE *			
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"
0'	4.0'	LOOSE MULTI COLOR FILL MATERIAL	1	0'-1.5	1	3
4.0	7.0	FILL LT. BRN MED. SLIGHLY SI SA	2	5'	8	5
7.0		(ALUV) SOFT BRN FI MED SI SA	3	10'	2	1
		SAME AS ABOVE	4	15'	2	1
		" " "	5	20	2	2
		Hole Elev. 764.3				

WATER LEVEL 10 AT TOP

WATER LEVEL ____ AT 24 HOURS

WATER LOSSES ____

CASING: SIZE ____ LENGTH ____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

4' FILL

16' ALUV.

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY — TEST BORING FIELD RE

JOB NAME: WATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO B-

DATE 3/21/75 WEATHER CLEAR - WARM GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE #			
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"
0'	4.5'	BOULDER FILL	1	0'/1.5'	17	9
4.5		BOULDER ROCK (POSS. FILL) FRM, GRN, SA, CL, MI, SI	2	5'	7	4
		(FILL) STF GRN, ROCK, SA, CL, SI TRASHY	3	10'	8	7
		(FILL) STF BLK, TRASHY FILL, SA, CL, SI	4	15'	3	3
	20'	(FILL) V. STF. BLK, WOOD ORGANIC SI, CL	5	20'	4	3
		B. T. 20'				
		Hole Elev. 771.9				

WATER LEVEL NGW AT TOB
8 HOURS
WATER LEVEL 18 AT ~~24 HOURS~~

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL [illegible] WITH A 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD RI

JOB NAME WATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO B

DATE 3/21/75 WEATHER _____ GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE #			
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"
0'	3.5'	(FILL) SOFT TRASHY SA SI CL FILL MATERIAL	1	0'/1.5	1	1
3.5'	7.0'	(RES.) STF. BRN FI/SA CL SI	2	5'	9	3
7.0'	18.0'	V. HARD BRN PART. WTD. ROCK	3	10'	24	48
		" " " " "	4	15'	100/5	
		REFUSAL @ 18'				
		Hole Elev. 773.8				

WATER LEVEL 7 AT TOB

WATER LEVEL 5 AT 7 HOURS

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

3.5' FILL

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES

LAW ENGINEERING TESTING COMPANY — TEST BORING FIELD RE

JOB NAME WATTS – BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING ____ HRS. MOVING ____ BORING NO B-

DATE 3/21/75 WEATHER WARM - MILD GROUND SURFACE ELEVATION ____

SOIL STRATA			SAMPLE #			
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"
0'	8.0'	(POSS. FILL) SOFT BRN, WHT, BLK SA CLAY SI	1	0'-1.5'	1	2
		(FILL) STIFF, BRN-BLK, FI SA SI CL	2	5'	5	5
8.0'	14.0'	(FILL) V. SOFT TRASHY FILL	3	10'	2	18"
14.0'	17.0'	(RES. SOIL) V. STF. GRN, BRN F/SA SI, FACT. WTD. SCHIST	4	15'	8	8
17.0'		V. HARD GRN-BRN. F/SA SI, SCHIST	5	20'	18	46
		B. T. 20'				
		Hole Elev. 777.5				

WATER LEVEL 14 AT TOP

WATER LEVEL 10 AT 8 HOURS ~~64 HOURS~~

WATER LOSSES ____

CASING: SIZE ____ LENGTH ____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

14' FILL

UNDISTURBED SAMPLES

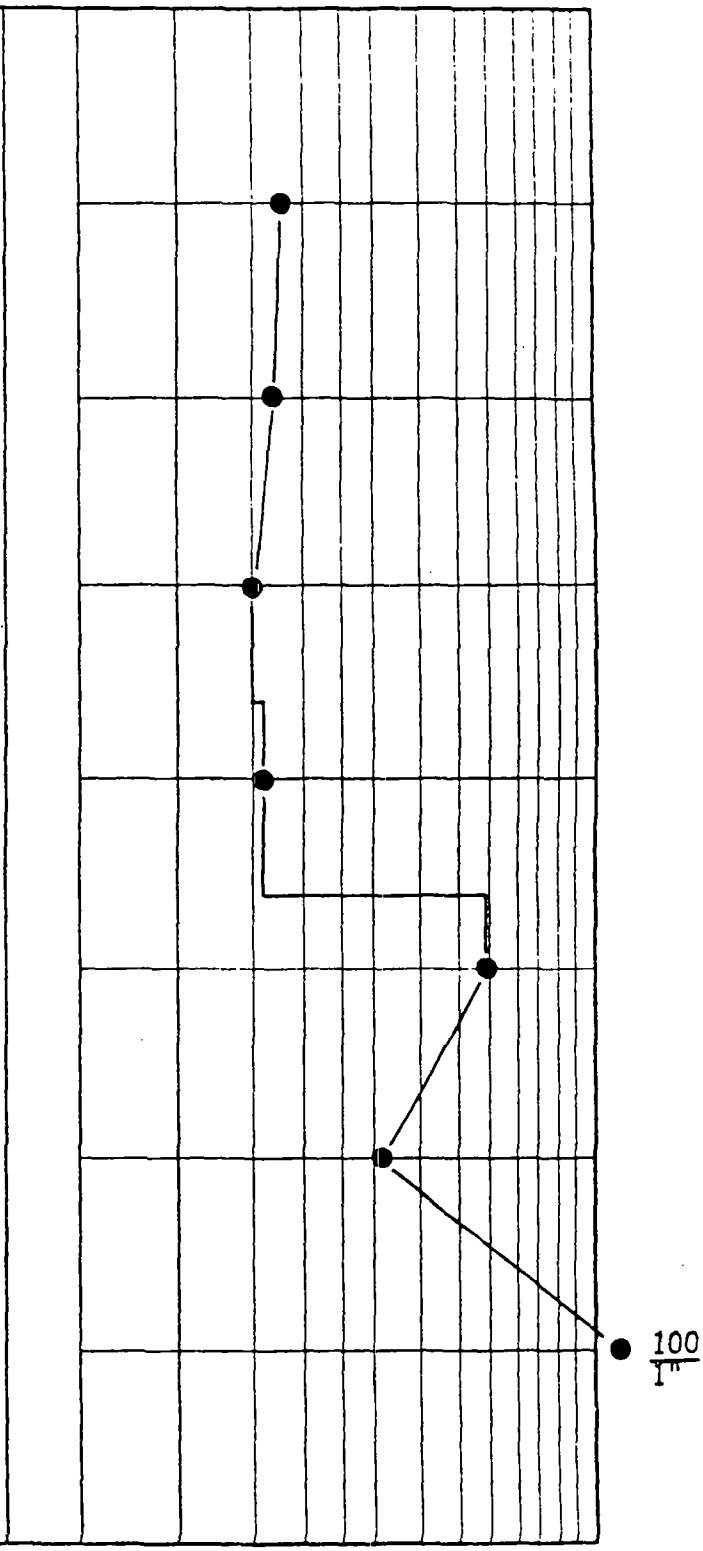
NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

TEST BORING RECORD

DEPTH FEET	DESCRIPTION	837' ELEV.
	FIRM RED BROWN FINE SANDY MICACEOUS SILT WITH GRAVEL AND BRICK FRAGMENTS (RUBBLE FILL)	
18.0	FIRM GRAY, BROWN AND RED SLIGHTLY CLAYEY FINE SANDY SILT WITH ORGANIC MATERIAL (RUBBLE FILL)	
23.0	HARD TO VERY STIFF GRAY FINE SANDY SILT	
32.0	VERY HARD GRAY FINE SANDY SILT WITH GRAVEL (PARTIALLY WEATHERED ROCK)	
	REFUSAL	

PENETRATION-BLOWS PER FOOT
0 5 10 15 20 30 40 60 80 100



REMARKS:

BORING NUMBER B-7
DATE DRILLED 6/26/75
JOB NUMBER 7785-A

TEST BORING RECORD

DEPTH FEET	DESCRIPTION	841.3' ELEV.
	GRAY FINE SANDY MICACEOUS SILT WITH BRICK FRAGMENTS (RUBBLE FILL)	
5.0	FIRM TO HARD GRAY FINE SANDY MICACEOUS SILT WITH GRAVEL	
22.0	VERY STIFF TO HARD RED AND BROWN FINE SANDY SILT	
32.0	VERY DENSE BROWN SILTY FINE SAND WITH SOFT ROCK FRAGMENTS	
38.6	REFUSAL	

PENETRATION-BLOWS PER FOOT
0 5 10 15 20 30 40 60 80 100

100/7"

REMARKS:

BORING NUMBER B-8
DATE DRILLED 6/26/75
JOB NUMBER 7785-A

TEST BORING RECORD

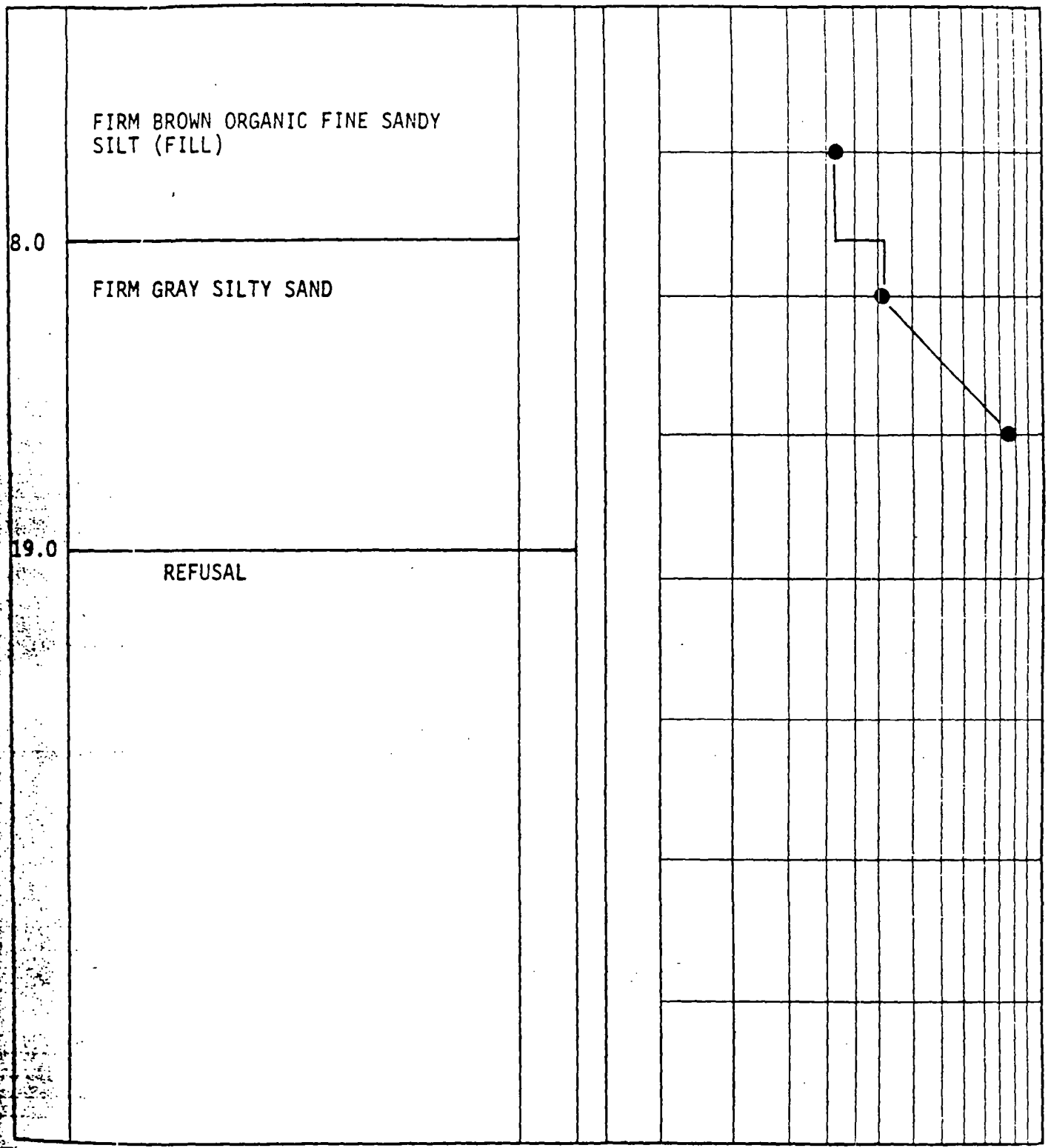
DEPTH FEET	DESCRIPTION	828 ELEV.	PENETRATION–BLOWS PER FOOT 0 5 10 15 20 30 40 60 80 100
	VERY DENSE GRAY SILTY FINE SAND		● 100/8"
8.6	REFUSAL		

REMARKS:

BORING NUMBER B-9
DATE DRILLED 6/26/75
JOB NUMBER 7785-A

TEST BORING RECORD

DEPTH FEET | DESCRIPTION | 830.7 ELEV. | PENETRATION-BLOWS PER FOOT 0 5 10 15 20 30 40 60 80 100



REMARKS:

BORING NUMBER B-10
DATE DRILLED 6/26/75
JOB NUMBER 7795-A

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME WATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO B-1

DATE 3/21/75 WEATHER WARM GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE +				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'		(FILL) STF, GRN, SA, SI, CL FILL MATERIAL	1	0/1.5	5	5	5
		(FILL) SFT, BLK-BRN-WOOD - SI CL FILL MATERIAL	2	5'	4	3	3
		(FILL) WOOD PAPER, ETC. FILL MATERIAL	3	10'	8	4	5
	18'6"	(FILL) LOOSE RAGS, WOOD, BLK FI SA SA	4	15'	3	4	4
18.6'		(ALUV.) V. SOFT GRN, FI, SA, SI, CL	5	20'	3	2	2
		Hole Elev. 779.7					

WATER LEVEL NGW AT TOB

WATER LEVEL 6' AT ~~24 HOURS~~ 8 HOURS,

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

HOLLOW STEM AUGERS

18.5' FILL

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME WATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO B-2

DATE 3/21/75 WEATHER WARM & CLEAR GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE +				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'	7'	TOP SOIL - LOOSE BRN MED SA	1	0'/1.5'	3	3	2
		(FILL) SOFT WOOD, MED SA	2	5'	2	2	2
7'	18'	(ALUV) SOFT BRN MED SI SA	3	10'	2	2	2
		(ALUV.) SOFT BRN MED SI SA	4	15'	1	2	3
18'		(POSS. ALUV.) LOOSE BRN-LT. BRN MED SI SA	5	20'	2	3	3
		W/SOME TRACES OF GRAVEL					
		B.T. @ 20'					
		Hole Elev. 759.3					

WATER LEVEL 11' AT TOB

WATER LEVEL 8 [redacted] @ 8 hours.

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

1 - HOLLOW STEM AUGERS

2 - NOTE: SOIL DAMP FROM SURFACE, ENCOUNTERED ACTUAL H_2O @ 11 ft.

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME WATTS – BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO B-3

DATE 3/21/75 WEATHER WARM & NICE GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE +				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'	4.0'	LOOSE MULTI COLOR FILL MATERIAL	1	0/1.5	1	3	4
4.0	7.0	FILM LT. BRN MED. SLIGHLY SI SA	2	5	8	5	6
7.0		(ALUV) SOFT BRN FI MED SI SA	3	10'	2	1	3
		SAME AS ABOVE	4	15'	2	1	2
		" " "	5	20	2	2	3
		Hole Elev. 764.3					

WATER LEVEL 10 AT TOB

WATER LEVEL _____ AT 24 HOURS

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

4' FILL

16' ALUV.

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME NATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO. B-4

DATE 3/21/75 WEATHER CLEAR - WARM GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE +				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'	4.5'	BOULDER FILL	1	0/1.5	17	9	3
4.5		BOULDER ROCK (POSS. FILL) FRM, GRN, SA, CL, M, SI	2	5'	7	4	4
		(FILL) STF GRN, ROCK, SA, CL, SI TRASHY	3	10'	8	7	6
		(FILL) STF BLK, TRASHY FILL, SA, CL, SI	4	15'	3	3	7
	20'	(FILL) V. STF. BLK, WOOD ORGANIC SI, CL	5	20'	4	3	25
		B.I. 20'					
		Hole Elev. 771.9					

WATER LEVEL NGW AT TOB

WATER LEVEL 18 AT ~~24 HOURS~~ 8 HOURS

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY
_____	_____	_____
_____	_____	_____
_____	_____	_____

*STANDARD PENETRATION RESISTANCE IS NUMBER OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME WATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO B-5

DATE 3/21/75 WEATHER _____ GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE +				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'	3.5'	(FILL) SOFT TRASHY SA SI CL FILL MATERIAL	1	0'/1.5'	1	1	1
3.5'	7.0'	(RES.) STF. BRN FI/SA CL SI	2	5'	9	3	9
7.0'	18.0'	V. HARD BRN PART. WTD. ROCK	3	10'	24	48	52/2"
		" " " " "	4	15'	100/5"		
		REFUSAL @ 18'					
		Hole Elev. 773.8					

WATER LEVEL 7 AT TOB

WATER LEVEL 5 AT 7 HOURS ~~24 HOURS~~

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

3.5' FILL

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1.40" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY — **TEST BORING FIELD REPORT**

JOB NAME WATTS – BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING ____ HRS. MOVING ____ BORING NO B-6

DATE 3/21/75 WEATHER WARM - MILD GROUND SURFACE ELEVATION ____

SOIL STRATA			SAMPLE +				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'	8.0	(POSS. FILL) SOFT BRN, WHT, BLK SA CLAY SI	1	0'/1.5	1	2	2
		(FILL) STIFF, BRN–BLK, FI SA SI CL	2	5'	5	5	6
8.0	14.0	(FILL) V. SOFT TRASHY FILL	3	10'	2	18"	
14.0	17.0	(RES. SOIL) V. STF, GRN, BRN FI/SA SI, PART. WTD. SCHIST	4	15'	8	8	13
17.0		VI. HARD GRN – BRN. FI/SA SI, SCHIST	5	20'	18	46	55
		B. T. 20'					
		Hole Elev. 777.5					

WATER LEVEL 14 AT TOR

WATER LEVEL 10 AT ~~24 HOURS~~ 8 HOURS

WATER LOSSES ____

CASING: SIZE ____ LENGTH ____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

14' FILL

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

"STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

SOUTHERN STATES L/F (ATLANTA)
(FULTON CO.)

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME WATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO E-1

DATE 3/21/75 WEATHER WARM GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE *				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'		(FILL) STF, GRN, SA, SI, CL FILL MATERIAL	1	0/1.5	5	5	5
		(FILL) SFT, BLK-BRN-WOOD - SI CL FILL MATERIAL	2	5'	4	3	3
		(FILL) WOOD PAPER, ETC. FILL MATERIAL	3	10'	8	4	5
	18.6"	(FILL) LOOSE RAGS, WOOD, BLK FI SE SA	4	15'	3	4	4
18.6"		(ALLUV.) V. SOFT GRN, FI, SA, SI, CL	5	20'	3	2	2
		Hole Elev. 7787					

WATER LEVEL NGW AT TOB

WATER LEVEL 6' AT ~~24 HOURS~~ 8 HOURS.

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

HOLLOW STEM AUGERS

18.5' FILL

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME WATTS - BROWNING LANDFILL JOB NO. 778E

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO B-2

DATE 3/21/75 WEATHER WARM & CLEAR GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE *				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'	7'	TOP SOIL - LOOSE BRN MED SA	1	0'/1.5'	3	3	2
		(FILL) SOFT WOOD, MED SA	2	5'	2	2	2
7'	18'	(ALUV) SOFT BRN MED SI SA	3	10'	2	2	2
		(ALUV.) SOFT BRN MED SI SA	4	15'	1	2	3
18'		(POSS. ALUV.) LOOSE BRN-LT. BRN MED SI SA	5	20'	2	3	3
		W/SOME TRACES OF GRAVEL					
		B.T. @ 20'					
		Hole Elev. 759.3					

WATER LEVEL 11' AT TOB

WATER LEVEL 8 [redacted] @ 8 hours.

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

1 - HOLLOW STEM AUGERS

2 - NOTE: SOIL CAME FROM SURFACE, ENCOUNTERED ARTESIAN H_2O @ 11 ft.

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME WATTS – BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO E-3

DATE 3/21/75 WEATHER WARM & NICE GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE *				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'	4.0'	LOOSE MULTI COLOR FILL MATERIAL	1	0/1.5	1	3	4
4.0	7.0	FILM LT. BRN MED. SLIGHLY SI SA	2	5'	8	5	6
7.0		(ALUV) SOFT BRN FI MED SI SA	3	10'	2	1	3
		SAME AS ABOVE	4	15'	2	1	2
		" " "	5	20	2	2	3
		Hole Elev. 764.3					

WATER LEVEL 10 AT TOP

WATER LEVEL _____ AT 24 HOURS

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

4' FILL

16' ALUV.

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME NATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO B-4

DATE 3/21/75 WEATHER CLEAR - WARM GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE *				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'	4.5'	BOULDER FILL	1	0/1.5	17	9	3
4.5		BOULDER ROCK (POSS. FILL) FRM, GRN, SA, CL, MI, SI	2	5'	7	4	4
		(FILL) STF GRN, ROCK, SA, CL, SI TRASHY	3	10'	8	7	6
		(FILL) STF BLK, TRASHY FILL, SA, CL, SI	4	15'	3	3	7
	20'	(FILL) V. STF. BLK, WOOD ORGANIC SI, CL	5	20'	4	3	25
		B.T. 20'					
		Hole Elev. 771.9					

WATER LEVEL NGW AT TOB

WATER LEVEL 18 AT 8 HOURS ~~24 HOURS~~

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME WATTS - BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO B-5

DATE 3/21/75 WEATHER _____ GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE *				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'	3.5'	(FILL) SOFT TRASHY SA SI CL FILL MATERIAL	1	0'/1.5	1	1	1
3.5'	7.0'	(RES.) STF. BRN FI/SA CL SI	2	5'	9	3	9
7.0'	18.0'	V. HARD BRN PART. WTD. ROCK	3	10'	24	48	52/
		" " " " "	4	15'	100/5"		
		REFUSAL @ 18'					
		Hole Elev. 773.8					

WATER LEVEL 7 AT TOB

WATER LEVEL 5 AT 7 HOURS ~~24 HOURS~~

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

3.5' FILL

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

LAW ENGINEERING TESTING COMPANY

TEST BORING FIELD REPORT

JOB NAME WATTS – BROWNING LANDFILL JOB NO. 7785

FIELD SUPERVISOR BRADSHAW CREW 2 HRS. DRILLING _____ HRS. MOVING _____ BORING NO B-6

DATE 3/21/75 WEATHER WARM - MILD GROUND SURFACE ELEVATION _____

SOIL STRATA			SAMPLE *				
FROM	TO	SOIL DESCRIPTION AND REMARKS	NO.	DEPTH	1ST 6"	2ND 6"	3RD 6"
0'	8.0	(POSS. FILL) SOFT BR, WHT, BLK SA CLAY SI	1	0'/1.5	1	2	2
		(FILL) STIFF, BRN – BLK, FI SA SI CL	2	5'	5	5	6
8.0	14.0	(FILL) V. SOFT TRASHY FILL	3	10'	2	18"	
14.0	17.0	(RES. SOIL) V. STF, GRN, BRN FI/SA SI, PART. WTD. SCHIST	4	15'	8	8	13
17.0		V. HARD GRN – BRN. FI/SA SI, SCHIST	5	20'	18	46	55
		B. T. 20'					
		Hole Elev. 777.5					

WATER LEVEL 14 AT TOP

WATER LEVEL 10 AT ~~24 HOURS~~ 8 HOURS

WATER LOSSES _____

CASING: SIZE _____ LENGTH _____

NOTES: (RECORD METHODS OF DRILLING AND DEPTHS)

14' FILL

UNDISTURBED SAMPLES

NO.	DEPTH	RECOVERY

*STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

TEST BORING RECORD

DEPTH FEET	DESCRIPTION	ELEV.

PENETRATION-BLOWS PER FOOT
0 5 10 15 20 30 40 60 80 100

FIRM RED BROWN FINE SANDY MICACEOUS SILT WITH GRAVEL AND BRICK FRAGMENTS (RUBBLE FILL)

18.0 FIRM GRAY, BROWN AND RED SLIGHTLY CLAYEY FINE SANDY SILT WITH ORGANIC MATERIAL (RUBBLE FILL)

23.0 HARD TO VERY STIFF GRAY FINE SANDY SILT

32.0 VERY HARD GRAY FINE SANDY SILT WITH GRAVEL (PARTIALLY WEATHERED ROCK)

REFUSAL

10 / 1"

REMARKS:

Hole Elev. 837.1

BORING NUMBER B-7
DATE DRILLED 6/26/75
JOB NUMBER 7785-A

TEST BORING RECORD

DEPTH FEET	DESCRIPTION	ELEV.
	GRAY FINE SANDY MICACEOUS SILT WITH BRICK FRAGMENTS (RUBBLE FILL)	
5.0	FIRM TO HARD GRAY FINE SANDY MICACEOUS SILT WITH GRAVEL	
22.0	VERY STIFF TO HARD RED AND BROWN FINE SANDY SILT	
32.0	VERY DENSE BROWN SILTY FINE SAND WITH SOFT ROCK FRAGMENTS	
38.6	REFUSAL	

PENETRATION–BLOWS PER FOOT
0 5 10 15 20 30 40 60 80 100

100/7"

REMARKS:

Hole Elev. 894.3

BORING NUMBER B-8
DATE DRILLED 6/26/75
JOB NUMBER 7785-A

TEST BORING RECORD

DEPTH FEET	DESCRIPTION	ELEV.	PENETRATION-BLOWS PER FOOT 0 5 10 15 20 30 40 80 100
	VERY DENSE GRAY SILTY FINE SAND		● 100/8"
8.6	REFUSAL		

REMARKS:

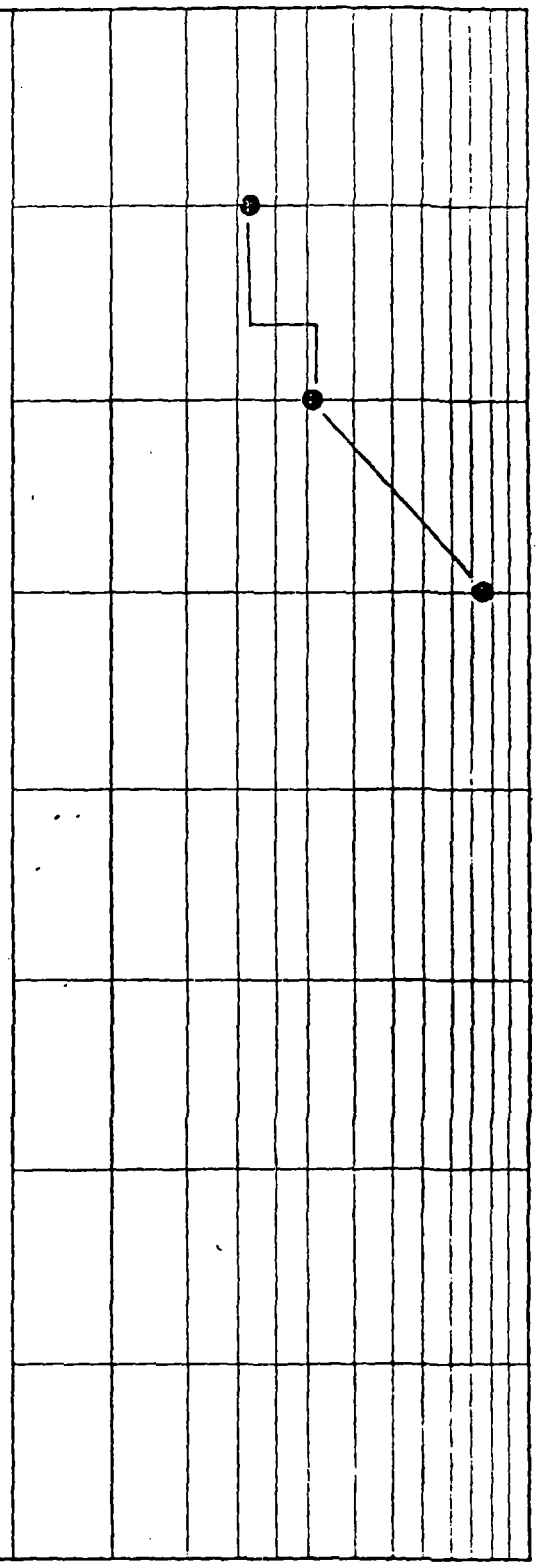
Hole Elev. 828.9

BORING NUMBER B-9
DATE DRILLED 6/26/75
JOB NUMBER 7725-A

TEST BORING RECORD

DEPTH FEET	DESCRIPTION	ELEV.
	FIRM BROWN ORGANIC FINE SANDY SILT (FILL)	
8.0	FIRM GRAY SILTY SAND	
19.0	REFUSAL	

PENETRATION-BLOWS PER FOOT
0 5 10 15 20 30 40 60 80 100



REMARKS:

Hole Elev. 830.7

BORING NUMBER B-10
DATE DRILLED 6/26/75
JOB NUMBER 7795-A

Job Number: MY 3851

Lab Number	Client ID	GW Depth * (ft)	pH	Specific Conductance (µmho/cm @ 25°C)	Chloride (mg/l)
84-10-03-01	MW-1 10/3/84	82.32	7.1	420	55.
84-10-03-02	MW-3 10/3/84	14.90	5.7	780	190
84-10-03-03	MW-4 10/3/84	16.36	6.3	560	46.
84-10-03-04	MW-5 10/3/84	15.08	6.0	305	9.6

* Depth of the groundwater measured from the top of the casing

Comments by RDC 10/9/84

Wells 3, 4 and 5 are adjacent to the Chattahoochee River and downgradient from Clayton & Sutton County Treatment Plants.

For safe drinking water, chlorides must be less than 250 mg/l

From Water Supply Engineering by Babbitt p 391-392

1. inland fresh waters supporting good fish fauna 150 - 500 µmhos
2. sea water approx. 50,000 µmhos

Southern States La· 'fill
Collected 1-24-89
Well #4

Tribble and Richardson

 Report No. 14255-5

RESULTS

Volatile Compounds (Method 624-GC/MS)

		Detection Limit (ppb)
Acrolein	ND	10
Acrylonitrile	ND	10
Benzene	ND	10
Carbon Tetrachloride	ND	10
Chlorobenzene	ND	10
1,2-Dichloroethane	ND	10
1,1,1-Trichloroethane	ND	10
1,1-Dichloroethane	ND	10
1,1,2-Trichloroethane	ND	10
1,1,2,2-Tetrachloroethane	ND	10
Chloroethane	ND	10
[redacted]		10
1,1-Dichloroethylene	ND	10
1,2-Trans-Dichloroethylene	ND	10
1,2-Dichloropropane	ND	10
1,2-Dichloropropylene (1,3-Dichloropropene)	ND	10
Ethylbenzene	ND	10
[redacted]		10
Methyl Chloride (Chloromethane)	ND	10
Methyl Bromide (Bromomethane)	ND	10
Bromoform (Tribromomethane)	ND	10
Dichlorobromomethane	ND	10
Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10
Chlorodibromomethane	ND	10
Tetrachloroethylene	ND	10
[redacted]	53	10
Trichloroethylene	ND	10
Vinyl Chloride (Chloroethylene)	ND	10
Xylenes	ND	10

ND = None Detected

Respectfully submitted,

By: J. Denise Lunda

3-27500

Southern States La fill
Collected 1-24-89
Well #2

Tribble and Richardson

Report No. 14255-3

RESULTS

Volatile Compounds (Method 624-GC/MS)

		Detection Limit (ppb)
Acrolein	ND	10
Acrylonitrile	ND	10
Benzene	ND	10
Carbon Tetrachloride	ND	10
Chlorobenzene	ND	10
1,2-Dichloroethane	ND	10
1,1,1-Trichloroethane	ND	10
1,1-Dichloroethane	ND	10
1,1,2-Trichloroethane	ND	10
1,1,2,2-Tetrachloroethane	ND	10
Chloroethane	ND	10
[redacted]		
1,1-Dichloroethylene	ND	10
1,2-Trans-Dichloroethylene	ND	10
1,2-Dichloropropane	ND	10
1,2-Dichloropropylene (1,3-Dichloropropene)	ND	10
Ethylbenzene	ND	10
[redacted]		
Methyl Chloride (Chloromethane)	ND	10
Methyl Bromide (Bromomethane)	ND	10
Bromoform (Tribromomethane)	ND	10
Dichlorobromomethane	ND	10
Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10
Chlorodibromomethane	ND	10
Tetrachloroethylene	ND	10
[redacted]		
Trichloroethylene	ND	10
Vinyl Chloride (Chloroethylene)	ND	10
Xylenes	ND	10

ND = None Detected

Respectfully submitted,

By: J. Denise Swords

3-27500

Southern States La fill
Collected 1-24-89
Well #1

Tribble and Richardson

 Report No. 14255-2

RESULTS

Volatile Compounds (Method 624-GC/MS)

		Detection Limit (ppb)
Acrolein	ND	10
Acrylonitrile	ND	10
Benzene	ND	10
Carbon Tetrachloride	ND	10
Chlorobenzene	ND	10
1,2-Dichloroethane	ND	10
1,1,1-Trichloroethane	ND	10
1,1-Dichloroethane	ND	10
1,1,2-Trichloroethane	ND	10
1,1,2,2-Tetrachloroethane	ND	10
Chloroethane	ND	10
[redacted]		
1,1-Dichloroethylene	ND	10
1,2-Trans-Dichloroethylene	ND	10
1,2-Dichloropropane	ND	10
1,2-Dichloropropylene (1,3-Dichloropropene)	ND	10
Ethylbenzene	ND	10
[redacted]		
Methyl Chloride (Chloromethane)	ND	10
Methyl Bromide (Bromomethane)	ND	10
Bromoform (Tribromomethane)	ND	10
Dichlorobromomethane	ND	10
Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10
Chlorodibromomethane	ND	10
Tetrachloroethylene	ND	10
[redacted]		
Trichloroethylene	ND	10
Vinyl Chloride (Chloroethylene)	ND	10
Xylenes	ND	10

ND = None Detected

Respectfully submitted,

By: F. Denise Lowe

3-27500

Microtox™ Application Notes

Date: April 8, 1983

Number: M106

Application: Groundwater Monitoring

Toxicity Testing of Groundwater

ABSTRACT

Microtox™ toxicity analysis of groundwater is a useful technique for the identification of samples containing harmful concentrations of toxic chemicals. The Microtox Toxicity Analyzer System was used by a state pollution control laboratory to screen the toxicity of 31 samples from test wells surrounding a hazardous waste dump site. Microtox accurately identified those samples which contained significant concentrations of metals or organics. The Microtox System provides a rapid and cost effective technique for monitoring groundwater quality.

INTRODUCTION

Contamination of groundwater is a significant environmental concern. Drinking water for more than 40% of the U.S. population is obtained from groundwater. In many cases this water is not purified prior to consumption and is treated only by disinfection.

The major threats to groundwater are leachates from improperly constructed wastewater impoundments and waste disposal sites. Of the more than 25,000 industrial wastewater impoundments nationwide, only 30% are contained within an impermeable liner. Of the 9,600 identified hazardous waste sites in the U.S., about 1,000 have been classified as potentially hazardous to human health and the environment. While these waste disposal sites are the major contamination threat, other sources can also be a factor. Metals and organics can leach into shallow aquifers from land-disposed municipal sludge of industrialized cities. Non-point source contamination such as residual agricultural chemicals also easily migrate into groundwater.

Recent studies indicate the most common organic pollutants found in groundwater are solvents such as dichloroethylene and trichloroethylene. These solvents have been identified in groundwater samples from most industrial states. Trichloroethylene which is often used as a cleaning solvent has been traced to leaching from septic tanks.

The various state pollution control agencies within the U.S. have primary responsibility for implementing the solid waste management program mandated by the Resource Conservation and Recovery Act. The United States Environmental Protection Agency has encouraged the state pollution control agencies to upgrade solid waste management programs to ensure minimum contamination of groundwater. The EPA has proposed limits for groundwater contamination based upon existing local groundwater quality. Many state environmental agencies have incorporated groundwater monitoring techniques at solid waste facilities to insure compliance with their groundwater protection regulations. Monitoring methods are primarily analytical procedures which do not include toxicity measurements because traditional toxicity methods such as the 96-hour fish test are not practical for routine monitoring. This study discusses the use of the Microtox System for monitoring groundwater samples.

METHOD

A state environmental protection laboratory incorporated the Microtox Toxicity Test Procedure into their groundwater monitoring program. A series of covered test wells, ranging from 10 to 40 feet in depth, were sampled for analytical and toxicity testing. These test wells were strategically located near a large hazardous waste dump site. Prior to sampling, each well was evacuated to dryness or its contents exchanged with three volumes of water. Sampling was accomplished with a stainless steel bailing device. The water samples were stored at 2 - 8°C but were tested within 24 hours of collection. Thirty-one test well samples were each analyzed for 6 metals, 6 organics, pH and toxicity. The metals of interest were cadmium lead, iron, chromium, nickel and zinc. The organics included benzene, toluene, xylene, dichloroethylene, trichloroethylene and tetrachloroethylene. The Microtox Toxicity Testing System was used to assess the toxicity of each sample. The results of these analyses are summarized in Table 1. The analytical data for each well sample are listed as total metals and total organic concentrations. This method of data presentation provides a comparison of toxicity with chemical analysis.

RESULTS

The test well samples exhibited a wide spectrum of toxicity. Nine wells had an EC50 of less than 1% (extremely toxic), while two wells were classified as non-toxic. The data show good correlation of toxicity with total chemical concentration. Generally, those test wells which had the higher concentration of chemicals also displayed the greatest toxicity; however, there were some exceptions to this trend.

The data from Wells 26 and 30 are inconsistent in that Well 30 was non-toxic, yet contained almost four times the total metal concentration as Well 26. However, the complete metal analysis of Well 30 showed that iron accounted for 95% of the metals present. Iron is rela-

Southern States Landfill
Collected 12/29/87 and 12/30/87

Sample ID	5 minutes		15 minutes	
	%LL	$\%EC_{50}$	%LL	$\%EC_{50}$
Non-Toxic Standard	6	>500	7	>500
Well 1	7	>500	6	>500
Well 2	11	>500	17	>500
Well 3	10	>500	15	>500
Well 4	27	350	57	100
Well 5	34	280	61	90

Conditions:

100% sample dilution
Performed using microtox procedure

ATTACHMENT 2

GROUNDWATER MONITORING

CLIENT Southern States Landfill DATE 12/29-30/87 TIME _____ BY Billy Long

Type Casing	Well Ident.	Depth to Bottom(ft)	Depth to Water(ft)	Depth of Water(ft)	Well Diameter	Volume to Purge		COMMENTS
Metal	1	180	76	104	6"	59	12-29-87	Was not purged due to excessi volume
Metal	2	268	48	220	6"	971	12-29-87	Was not purged due to excessi volume
PVC	3	58	27	31	4"	61	12-29-87	Complete 3 volumes purged and sample immediately thereafter
								Smelled rotted e.g. sulfide
PVC	4	44	28 1/2	15.5	4"	31	12-29-87	Complete 3 volumes purged a sample immediately thereaft
								Odor during purging
PVC	5	44	28 1/2	15.5	4:	31	12-30-87	Complete 3 volumes purged and sample immediately thereafter

ATTACHMENT 3

icipal Solid Waste Control Program - EPD
0 Norman Berry Drive - 7th Floor
eville, Georgia 30354
/656-2836

WATER MONITORING REPORT

SOLID WASTE DISPOSAL SITES

e Name: Southern States Landfill-Bolton Road

e Sample: ☐ Background ☒ Operational ☐ Other

itoring Results

Sampling Date 12/29-30/87

Monitoring Station #	Analytical Results			Depth to Groundwater -Wells Only- (ft.)	Physical Condition of Monitoring Station (Describe)
	pH	Specific Conductance (µmhos)	Chlorides (mg/l)		
1	6.6	550	68	76	Metal Casing, sample collected 12-29-87
2	6.3	400	11	48	Metal Casing, sample collected 12-29-87
3	5.4	550	99	27	PVC Casing, sample collected 12-29-87
4	5.9	650	69	28 1/2	PVC Casing, sample collected 12-30-87
5	5.9	550	34	28 1/2	PVC Casing, sample collected 12-30-87

ATTACHMENT 4

oratory TRIBBLE & RICHARDSON, INC. Chemist KATHY BRAGG Telephone # 912 / 474 - 6100

Georgia Department . Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

March 23, 1988

Mr. Raymond Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Fulton County - Southern States Landfill, Inc., Bolton Road

Dear Mr. Cash:

Representatives of the Solid Waste Management Program have reviewed the assessment monitoring plan dated January 30, 1988, and prepared by Tribble and Richardson, Inc. This plan is approved contingent upon the following stipulations:

1. The range of analysis must be expanded to include the drinking water standard metals and the volatile organic compounds on the Clean Water Act Priority Pollutant list.

2. The results of each sampling must be reported to the Environmental Protection Division within 30 days of analysis.

If you have any questions regarding this matter, please contact Harold C. Gillespie at 404/656-2836.

Sincerely,

James W. Dunbar
Program Manager
Solid Waste Management Program

JWD:hgf/014
c: John D. Taylor, Jr.
Morgan V. Cantrell
William F. Hodges
File (WM)

ATTACHMENT 5

Solid Waste Management Program - EPD
3420 Norman Berry Drive - 7th Floor
Hapeville, Georgia 30354
404/656-2836

WATER MONITORING REPORT

SOLID WASTE DISPOSAL SITES

Date Released 5-25-89

Attention Raymond Cash

Site Name: Southern States Landfill - Bolton Road Site

Type Sample: ☐ Background ☒ Operational ☐ Other

Monitoring Results

Sampling Date 4-21-89

Monitoring Station #	Analytical Results			Depth to Groundwater -Wells Only- (ft.)	Physical Condition of Monitoring Station (Describe)
	pH	Specific Conductance (µmhos)	Chlorides (mg/l) * NOTE *		
Well #1	6.34	535.5	67.7		
Well #2	6.24	550	15.6		
Well #3	5.89	765	15.6		
Well #4	5.99	800	52.1		
Well #5	6.09	816	104		
Surface Water	7.1	231	10.4		
Field Blank		0	1.0		
*NOTE - Chlorides collected 5-24-89					

Laboratory TRIBBLE & RICHARDSON, INC. Chemist Kathy S. Bragg SK Telephone # 912/ 474-6100

Tribble & Richardson Inc.

Consulting Engineers / Surveyors / Planners
Laboratory Services

May 26, 1989

Mr. Harold Gillespie
Environmental Protection Division
3420 Norman Berry Drive
Hapeville, GA 30354

Re: Southern States Landfill, Inc
Bolton Road Sanitary Landfill
Water Monitoring Report
T&R Project No. 5566-099-01

Dear Mr. Gillespie:

Enclosed you will find the above referenced report. As per the upgraded monitoring schedule, this monitoring includes the following:

pH	Chlorides
Conductance	Microtox

Should you have any questions, please feel free to contact us.

Sincerely,

TRIBBLE & RICHARDSON, INC.

Robert C. Howell

RCH:tg

cc: Raymond Cash
Southern States Landfill, Inc.

GROUNDWATER MONITORING

CLIENT Southern States DATE 4/20-21/89 TIME See Comments BY KGB

Well Ident.	Depth to Bottom(ft)	Depth to Water(ft)	Depth of Water(ft)	Well Diameter	Volume to Purge	COMMENTS
1	201.9	72.6	129.3	6"	———	No purge 4-20-89
2	>304	84.7	>219.3	6"	———	No purge 4-20-89
3	56.7	26.6	30.1	4"	58.7 gal.	Purge start 1:00 stop 5:00 4-20-89
4	42.6	29	13.6	4"	26.5 gal.	Purge start 8:30 stop 10:15 4-21-89
5	43	27.7	15.4	4"	29.9 gal.	Purge start 10:30 stop 12:30 4-21-89

Tribble & Richardson Inc.
Consulting Engineers / Surveyors / Planners
Laboratory Services

RECEIVED
MAY 30 1989
Solid Waste Management

CLIENT Southern States Landfill ATTENTION

COLLECTED 4-21-89 BY T&R SAMPLE: 24 HOUR COMPOSITE

RECEIVED 4-24-89 BY T&R FLOW PROPORTIONAL, GRAB

REPORTED 5-25-89 RELEASED BY: Kathy S. Bragg J.K

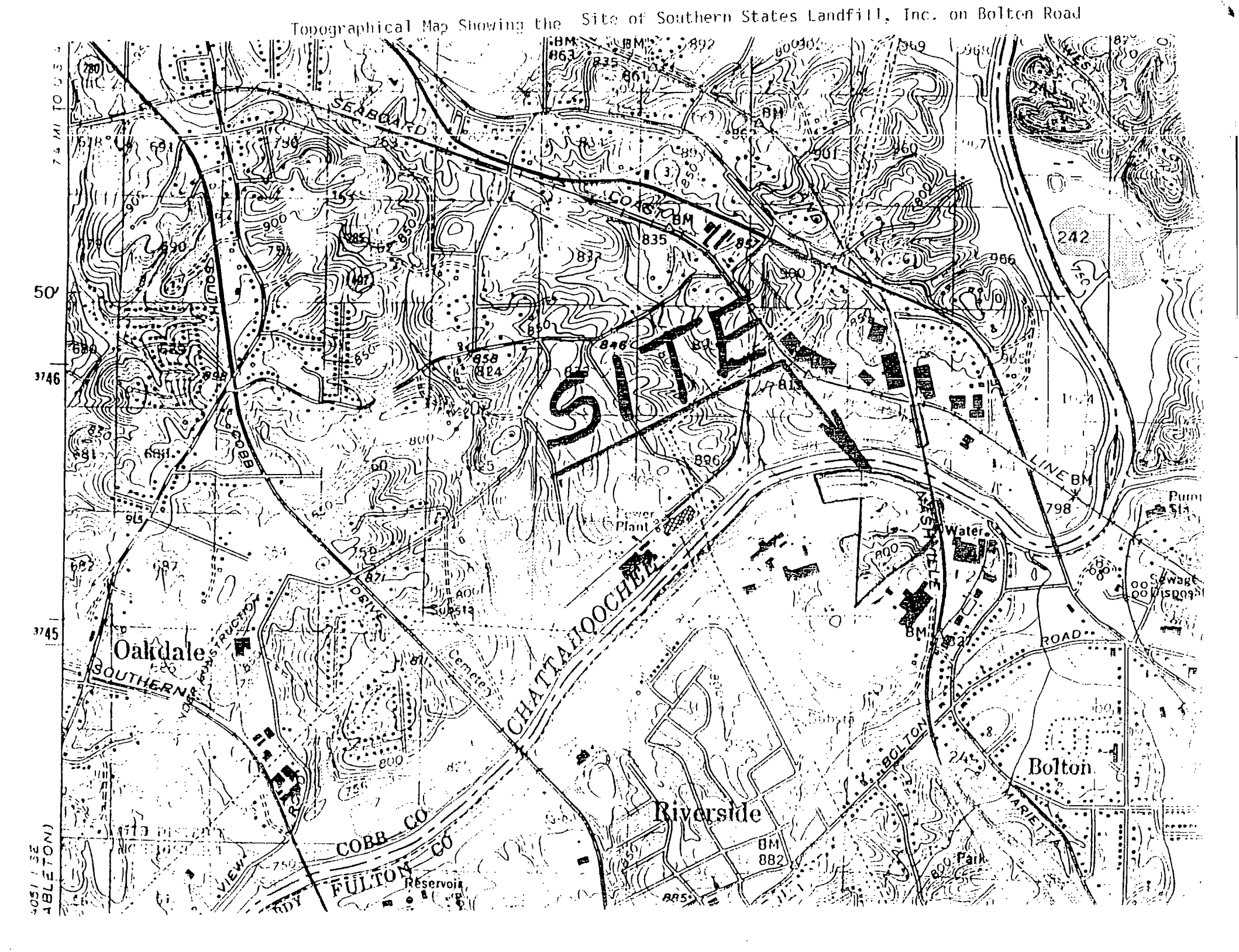
LOCATION						
ANALYSIS	UNITS	Well #1	Well #2	BY	DATE RUN	METHOD
Microtox	EC_{50}			DS	4-25	
15 Minutes	o/o	0	16			
		Well #3	Well #4			
Microtox	EC_{50}			DS	4-25	
15 Minutes	o/o	9	53			
		Well #5	Surface Water			
Microtox	EC_{50}			DS	4-25	
15 Minutes	o/o	8	0			
		Field Blank				
Microtox	EC_{50}			DS	4-25	
15 Minutes		5				

ALL ANALYSIS PERFORMED ACCORDING TO STANDARD METHODS 16th EDITION.

COMMENT :

P.O. BOX 17147 MACON, GA 31208 0147 / OFFICE 4875 RIVERSIDE DRIVE 31210

Topographical Map Showing the Site of Southern States Landfill, Inc. on Bolton Road



Fulton
Southern States, Inc
No. 5

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S W
ATLANTA, GEORGIA 30334

Commissioner

J. LEONARD LEDBETTER

February 15, 1985

Mr. Raymond M. Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, GA 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

An inspection of the above subject site was conducted on February 13, 1985 in the company of Mr. Leon Watkins. Violations noted were discussed with you and Mr. Watkins and are delineated on the enclosed copy of the evaluation report.

A Sanitary Landfill Rating of 75 is below the acceptable level for a sanitary landfill. As you are aware, a rating of 86 or greater is necessary. The main deficiency was the lack of a six inch minimum earth cover over deposited waste at the end of each day.

As related to you the office will be required to make a follow up inspection in about 30 days. I solicit your interest and cooperation in upgrading the site to an acceptable level of compliance.

Should you have any questions concerning the above or require technical assistance in solid waste handling, do not hesitate to call.

Sincerely,

Morgan V. Cantrell

Morgan V. Cantrell
Unit Coordinator
Municipal Solid Waste Control Unit

MVC:sf
Enclosure: Evaluation Report dated 2/13/85
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

Per discussion with Lewis Tinley 6/8/84, this site does not lie within the Chattahoochee River Corridor.

I discussed most of these comments with Taz Anderson 434-1886 on 6/8/84. He will get back with me with answers.

Plan modifications should be added to original approved plans as revisions to drawings.

RDW:sf

Fulton Co. C
Southern States - Bolt
Rd. SL

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S W
ATLANTA, GEORGIA 30334

Commissioner

J LEONARD LEDBETTER

March 12, 1985

Mr. Raymond M. Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, GA 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

An inspection of the above subject site was conducted on March 7, 1985 in the company of Mr. Leon Watkins. Violations noted were discussed with him and are delineated on the enclosed copy of the evaluation report.

Your interest and cooperation in upgrading the site is appreciated. Should you have any questions in solid waste management, do not hesitate to call.

Sincerely,

Morgan V. Cantrell

Morgan V. Cantrell
Unit Coordinator
Municipal Solid Waste Control Unit

MVC;sf
Enclosure: Evaluation Report dated 3/7/85
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File ✓

County - Fulton

Date - March 7, 1985

Permit Number - 060-010D(SL)

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

SOLID WASTE MANAGEMENT SECTION
Telephone: 404-656-2836

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)

SANITARY LANDFILL RATING (SLR) = 94

Site Name Southern States - Bolton Road

PROHIBITED ACTS *If any of the following exists or is indicated, SLR = 0. Check.*

- [ ] Burning (except by approved incineration method)
- [ ] Scavenging
- [x] None of the above exists or is indicated by existing conditions

PERMITS (0, 15) *Check appropriate blocks and state rating.* — Rating: 15

A*	U*	
☒	☐	Site permitted
		NOTE: If site is not permitted, but permit application has been submitted, check here ☐ .
☒	☐	Site being operated in accordance with permit, and design and operational plan

REQUIREMENTS *Check appropriate blocks and state individual rating.*

A*	U*		Rating
		1. Unloading (0, 4)	4
☒	☐	a. restricted to the working face or immediate vicinity	
☒	☐	b. wastes easily incorporated into the working face	
		2. Spreading (0, 4)	4
☒	☐	a. wastes spread into uniform layers (Layers 2 feet thick are generally recommended.)	
☒	☐	b. size of the working face minimized	
		3. Compaction (0, 4)	4
☒	☐	a. refuse compacted to smallest practical volume	
☒	☐	b. large bulky items properly compacted or excluded from disposal operation	
		4. Daily Cover (0, 15)	15
☒	☐	a. compacted	
☒	☐	b. clean earth	
☒	☐	c. 6 inch thickness (minimum)	
☒	☐	d. frequency of application not to exceed 24 hours	
		5. Intermediate Cover (0, 4)	4
☒	☐	a. compacted	
☒	☐	b. clean earth	
☒	☐	c. 1 foot thickness (minimum)	
☒	☐	d. placed over each portion of any intermediate lift following completion of that lift	
☐		e. none required at this time	
		6. Final Cover (0, 4)	4
☒	☐	a. compacted	
☒	☐	b. clean earth	
☒	☐	c. 2 foot thickness (minimum)	
☒	☐	d. placed over final lift not later than one month following placement of solid waste within that lift	
☐		e. none required at this time	

(over)

A*	U*		Rating
		7. Grading (0,4)	
☒	☐	a. maintenance of existing eroded areas	4
☒	☐	b. slope of surface of disposal area sufficient to maximize runoff and minimize erosion	
		8. Drainage (0, 4)	
☒	☐	a. adequate system of diversion ditches to minimize runoff onto the surface of the disposal area and/or drainage ditches to lower the water table	0
☐	☒	b. adequate drainage provisions from the surface of the disposal area	
☐	☒	c. maintenance of drainage structures and ditches	
		9. Continuity (0, 2)	2
☒	☐	a. all-weather access roads	
☒	☐	b. provisions for prompt equipment repair or replacement, when needed	
		10. Environmental Protection	
		a. Air (0, 2)	2
☒	☐	1) dust control	
☒	☐	2) odor control	
		b. Land (0, 2)	0
☒	☐	1) exposed rubbish and debris (except in designated reclamation areas)	
☐	☒	2) finished areas grassed or otherwise protected to prevent erosion	
		c. Water (0, 5)	5
☒	☐	1) leachate control (if samples taken, check here ☐ . Laboratory analyses should be attached to report.)	
☒	☐	2) potential floating debris found in or near drainage facilities	
☒	☐	3) placement of refuse above water table	
☒	☐	4) disposal area adequate distance from river, stream, or impoundment (normally 50 feet)	
		11. Supervision (0, 4)	4
☒	☐	a. site under supervision of responsible individual	
☒	☐	b. responsible individual at the disposal site at all times during operation	
		12. Limited Access (0, 15)	15
☒	☐	a. access limited to authorized entrances	
☒	☐	b. authorized entrances closed when the site is not in operation	
		13. Litter Control (0, 4)	4
☒	☐	a. litter control program (fencing or other barriers)	
☒	☐	b. entire site policed daily	
		14. Fire Protection (0, 4)	4
☒	☐	a. suitable means provided to prevent fires	
☒	☐	b. suitable means provided to control fires (Stockpiled earth is considered to be the most satisfactory fire fighting material.)	

ADDITIONAL STIPULATIONS (0, 4) — 4

(The following items are required for this disposal operation.)

A*	U*	
☒	☐	15. Informational and directional signs posted
☒	☐	16. Insect, rodent, bird, and animal control
☐	☒	17. Site communication (telephone, two-way radio)
☐	☒	18. Employee facilities (toilet and drinking water provided)
☒	☐	19. Operational records
☒	☐	20. Special provisions for immediate disposal of dead animals or highly putrescible wastes (eggs, entrails, offal, etc.)

Sanitary Landfill Rating (SLR) = 94 . SLR excluding prohibited acts _____ .
SLR must be greater than 85 to be an acceptable sanitary landfill.

A* denotes *acceptable* parameter.

U* denotes *unacceptable* parameter. (A single parameter for any requirement or the additional stipulations may be sufficient to preclude any score for that requirement or the additional stipulations.)

Comments:

1. I was accompanied on the inspection by Mr. Leon Watkins.

2. Site operation was satisfactory.

3. Pipe work remaining at silt pond.

4. 24" pipe on east side of site must be extended.

5. Sediment basin detail (sheet 1):

   a. Riprap below pipe and up dike slope to 767.4 elevation
   b. Trash rack, and
   c. "Wrap riser pipe securely with filter fabric".

Time of inspection: 10:45 - 11:35 AM Weather conditions: Clear & Warm

Reason for inspection: [X] Routine [ ] Other _____

Discussed with:

	Name	Title	Address	Telephone
1)	Leon Watkins	Site Supervisor, Southern States Landfill, Inc.	4696 Oakdale Road, Smyrna, GA 30080	799-1273
2)				
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	Raymond Cash	President (Same as above)		453-9962
2)	W. Cedric Maddox	Director, Bureau of Sanitary Services, City of Atlanta	1540 Northside Drive, Atlanta, Georgia 30318	351-0289
3)	M. DeVon Bogue	Director of Environmental Health Services, Fulton County Health Department	99 Butler St. SE, Atlanta, GA 30303	572-2116

Photographs: [ ] yes [X] no; Total number _____; Location filed _____

Inspected by: Morgan V. Cantrell

Reviewed by: James W. Dunlap Review date: 4/19/85

Attachments: None

Comments:

1. I was accompanied on the inspection by Mr. Leon Watkins.
2. Embankments along the River Road and around monitoring wells had been fertilized and seeded.
3. Earth cover operations were acceptable.
4. Ample equipment was working.
5. Silt basin is under construction.
6. Still having problems with fabric fencing below drain pipe.

Time of inspection: 2:00 - 3:00 PM Weather conditions: Clear & Warm

Reason for inspection: [X] Routine [ ] Other

Discussed with:

	Name	Title	Address	Telephone
1)	Leon Watkins	Site Supervisor, Southern States LF, Inc.	4696 Oakdale Road, Smyrna, GA 30080	453-9962
2)				
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	Raymond M. Cash	President	(Same as above)	
2)	W. Cedric Maddox	Director, Bureau of Sanitary Services, City of Atlanta	1540 Northside Drive, Atlanta, Georgia 30318	351-0289
3)	M. DeVon Bogue	Director of Environmental Health Services, Fulton County Health Department	99 Butler St. SE, Atlanta, GA 30303	572-2116

Photographs: [ ] yes [X] no; Total number ____; Location filed ____

Inspected by: Morgan V. Cantrell

Reviewed by: Philip H. Eve, Jr. Review date: march 12, 1985

Attachments: None

County - Fulton

Date - April 17, 1985

Permit Number - 060-010D(SL)

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334
SOLID WASTE MANAGEMENT SECTION
Telephone: 404-656-2836

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 96

Site Name Southern States - Bolton Road

PROHIBITED ACTS *If any of the following exists or is indicated, SLR = 0. Check.*

- [ ] Burning (except by approved incineration method)
- [ ] Scavenging
- [x] None of the above exists or is indicated by existing conditions

PERMITS (0, 15) *Check appropriate blocks and state rating.* — Rating: 15

A*	U*	
[x]	[ ]	Site permitted
		NOTE: If site is not permitted, but permit application has been submitted, check here [ ].
[x]	[ ]	Site being operated in accordance with permit, and design and operational plan

REQUIREMENTS *Check appropriate blocks and state individual rating.*

A*	U*		Rating
		1. Unloading (0, 4)	4
[x]	[ ]	a. restricted to the working face or immediate vicinity	
[x]	[ ]	b. wastes easily incorporated into the working face	
		2. Spreading (0, 4)	4
[x]	[ ]	a. wastes spread into uniform layers (Layers 2 feet thick are generally recommended.)	
[x]	[ ]	b. size of the working face minimized	
		3. Compaction (0, 4)	4
[x]	[ ]	a. refuse compacted to smallest practical volume	
[x]	[ ]	b. large bulky items properly compacted or excluded from disposal operation	
		4. Daily Cover (0, 15)	15
[x]	[ ]	a. compacted	
[x]	[ ]	b. clean earth	
[x]	[ ]	c. 6 inch thickness (minimum)	
[x]	[ ]	d. frequency of application not to exceed 24 hours	
		5. Intermediate Cover (0, 4)	4
[x]	[ ]	a. compacted	
[x]	[ ]	b. clean earth	
[x]	[ ]	c. 1 foot thickness (minimum)	
[x]	[ ]	d. placed over each portion of any intermediate lift following completion of that lift	
[ ]		e. none required at this time	
		6. Final Cover (0, 4)	4
[x]	[ ]	a. compacted	
[x]	[ ]	b. clean earth	
[x]	[ ]	c. 2 foot thickness (minimum)	
[x]	[ ]	d. placed over final lift not later than one month following placement of solid waste within that lift	
[ ]		e. none required at this time	

(over)

A*	U*		
☒	☐	7. Grading (0,4)	
☒	☐	a. maintenance of existing eroded areas	4
☒	☐	b. slope of surface of disposal area sufficient to maximize runoff and minimize erosion	
		8. *Drainage* (0, 4)	
☒	☐	a. adequate system of diversion ditches to minimize runoff onto the surface of the disposal area and/or drainage ditches to lower the water table	0
☒	☐	b. adequate drainage provisions from the surface of the disposal area	
☐	☒	c. maintenance of drainage structures and ditches	
		9. Continuity (0, 2)	
☒	☐	a. all-weather access roads	2
☒	☐	b. provisions for prompt equipment repair or replacement, when needed	
		10. Environmental Protection	
		a. Air (0, 2)	2
☒	☐	1) dust control	
☒	☐	2) odor control	
		b. Land (0, 2)	2
☒	☐	1) exposed rubbish and debris (except in designated reclamation areas)	
☒	☐	2) finished areas grassed or otherwise protected to prevent erosion	
		c. Water (0, 5)	5
☒	☐	1) leachate control (If samples taken, check here ☐ . Laboratory analyses should be attached to report.)	
☒	☐	2) potential floating debris found in or near drainage facilities	
☒	☐	3) placement of refuse above water table	
☒	☐	4) disposal area adequate distance from river, stream, or impoundment (normally 50 feet)	
		11. Supervision (0, 4)	4
☒	☐	a. site under supervision of responsible individual	
☒	☐	b. responsible individual at the disposal site at all times during operation	
		12. Limited Access (0, 15)	15
☒	☐	a. access limited to authorized entrances	
☒	☐	b. authorized entrances closed when the site is not in operation	
		13. Litter Control (0, 4)	4
☒	☐	a. litter control program (fencing or other barriers)	
☒	☐	b. entire site policed daily	
		14. Fire Protection (0, 4)	4
☒	☐	a. suitable means provided to prevent fires	
☒	☐	b. suitable means provided to control fires (Stockpiled earth is considered to be the most satisfactory fire fighting material.)	

ADDITIONAL STIPULATIONS (0, 4) — 4

(The following items are required for this disposal operation.)

A*	U*	
☒	☐	15. Informational and directional signs posted
☒	☐	16. Insect, rodent, bird, and animal control
☒	☐	17. Site communication (telephone, two-way radio)
☒	☐	18. Employee facilities (toilet and drinking water provided)
☒	☐	19. Operational records
☒	☐	20. Special provisions for immediate disposal of dead animals or highly putrescible wastes (eggs, entrails, offal, etc.)

Sanitary Landfill Rating (SLR) = 96 . SLR excluding prohibited acts _____ .
SLR must be greater than 85 to be an acceptable sanitary landfill.

A* denotes *acceptable* parameter.

U* denotes *unacceptable* parameter. (A single parameter for any requirement or the additional stipulations may be sufficient to preclude any score for that requirement or the additional stipulations.)

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S W
ATLANTA, GEORGIA 30334

Commissioner

J. LEONARD LEDBETTER

April 19, 1985

Mr. Raymond M. Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

An inspection of the above subject site was conducted on April 17, 1985 in the company of Mr. Leon Watkins. Violations noted were discussed with him and are delineated on the enclosed copy of the evaluation report.

Thank you for the interest and cooperation you have shown in the sanitary landfill operation. Leon, Eric and all have been most cordial.

Should you have any questions concerning the evaluation report, do not hesitate to call.

Sincerely,

Morgan V. Cantrell

Morgan V. Cantrell
Unit Coordinator
Municipal Solid Waste Control Unit

MVC:sf
Enclosure: Evaluation Report dated 4/17/85
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

Fulton (Atlanta)
Southern States - Bolton Rd

J. LEONARD LEDBETTER
Commissioner

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

May 31, 1985

MEMORANDUM

TO: Morgan V. Cantrell

THROUGH: James W. Dunbar

FROM: Randolph D. Williams

SUBJECT: Scavenging at Southern States Bolton Rd. SL; Fulton County

On 5/31/85 Mrs. Gates (355-1967) called to complain about possible scavenging at the subject site. She stated that residents at 2067 Bolton Road and 2644 Bolton Road are apparently scavenging material after trucks from Six Flags dump and holding yard sales on Saturdays. I told her that the requirement for limited access at a site was intended as vehicular access. I said that you or Phil would investigate this afternoon or next Tuesday. She said she would call back next Wednesday or Thursday.

RDW:sf

Fulton Co
Southern States
Bolton Rd. SL

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S W
ATLANTA, GEORGIA 30334

Commissioner

J. LEONARD LEDBETTER

June 12, 1985

Mr. Raymond P. Cash, President
Southern States Landfill, Inc.
4696 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Southern States - Bolton Road Sanitary Landfill; Fulton County

Dear Mr. Cash:

The subject site was inspected on June 7, 1985 by personnel of my staff due to complaints of scavenging and noise from early morning dumping. Information given is that this site opens at 5:00 AM Monday through Saturday, and earlier at times.

The supporting data, submitted with your permit application gives the normal operational schedule as Monday through Saturday, 7:00 AM to 6:00 PM (see enclosed Supplemental Data). Do not begin operation of this site before 7:00 AM.

No evidence of scavenging was found. However, let me take this opportunity to bring to your attention the fact that scavenging is a violation of the Rules and Regulations for Solid Waste Management.

Should you have any questions concerning the subject of this letter, please call 656-2836.

Sincerely,

James W. Dunbar

James W. Dunbar
Program Manager
Municipal Solid Waste Control Program

JWD:pef
Enclosure
c: John D. Taylor, Jr.
File

June 28, 1985

Mr. James W. Dunbar
Program Manager
Solid Waste Control Program
Department of Natural
Resources
3420 Norman Berry Drive
Seventh Floor
Hapeville, Georgia 30354

RECEIVED

MUNICIPAL SOLID WASTE

RE: Southern States L.F., Inc.;
Our File Number 19084.01

Dear Mr. Dunbar:

This letter is to advise you that the Bolton Road Landfill operated by this company under Solid Waste Handling Permit Number 060-010D(SL) (the "Permit") is being operated in compliance with all of the requirements set forth in your letter to me dated June 12, 1985.

It is our present intention to apply to the Department of National Resources for a modification of the Permit which would allow us to expand our hours of operation. However, we intend to continue to adhere to the restrictions on our operations set forth in your letter until such time as we have been able to obtain such a modification.

It has been and continues to be our goal to operate the landfill in strict conformity with all conditions and restrictions imposed by the Permit and to cooperate fully with your staff in addressing any problems that arise. We appreciate the assistance which your staff has provided to us in this regard.

We thank you for your consideration in this matter.

Sincerely,

Raymond H. Cash
President
Southern States L.F., Inc.

[illegible]

cc: Randolph [illegible] ✓
Thomas V. [illegible]

County - Fulton

Date - August 23, 1985

Permit Number - 060-010D(SL)

Commissioner

J LEONARD LEDBETTER

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION

270 WASHINGTON STREET S.W.

ATLANTA, GEORGIA 30334

SOLID WASTE MANAGEMENT SECTION

Telephone: 404-656-2836

DISPOSAL SITE EVALUATION REPORT
(SANITARY LANDFILL)
SANITARY LANDFILL RATING (SLR) = 94

Site Name Southern States - Bolton Road

PROHIBITED ACTS *If any of the following exists or is indicated, SLR = 0. Check.*

- [ ] Burning (except by approved incineration method)
- [ ] Scavenging
- [x] None of the above exists or is indicated by existing conditions

PERMITS (0, 15) *Check appropriate blocks and state rating.* — Rating: 15

A*	U*	
[x]	[ ]	Site permitted
		NOTE: If site is not permitted, but permit application has been submitted, check here [ ].
[x]	[ ]	Site being operated in accordance with permit, and design and operational plan

REQUIREMENTS *Check appropriate blocks and state individual rating.*

A*	U*		Rating
		1. Unloading (0, 4)	4
[x]	[ ]	a. restricted to the working face or immediate vicinity	
[x]	[ ]	b. wastes easily incorporated into the working face	
		2. Spreading (0, 4)	4
[x]	[ ]	a. wastes spread into uniform layers (Layers 2 feet thick are generally recommended.)	
[x]	[ ]	b. size of the working face minimized	
		3. Compaction (0, 4)	4
[x]	[ ]	a. refuse compacted to smallest practical volume	
[x]	[ ]	b. large bulky items properly compacted or excluded from disposal operation	
		4. Daily Cover (0, 15)	15
[x]	[ ]	a. compacted	
[x]	[ ]	b. clean earth	
[x]	[ ]	c. 6 inch thickness (minimum)	
[x]	[ ]	d. frequency of application not to exceed 24 hours	
		5. Intermediate Cover (0, 4)	4
[x]	[ ]	a. compacted	
[x]	[ ]	b. clean earth	
[x]	[ ]	c. 1 foot thickness (minimum)	
[x]	[ ]	d. placed over each portion of any intermediate lift following completion of that lift	
[ ]		e. none required at this time	
		6. Final Cover (0, 4)	4
[x]	[ ]	a. compacted	
[x]	[ ]	b. clean earth	
[x]	[ ]	c. 2 foot thickness (minimum)	
[x]	[ ]	d. placed over final lift not later than one month following placement of solid waste within that lift	
[ ]		e. none required at this time	

(over)

A*	U*		Rating
		7. Grading (0,4)	
☒	☐	a. maintenance of existing eroded areas	4
☒	☐	b. slope of surface of disposal area sufficient to maximize runoff and minimize erosion	
		8. Drainage (0, 4)	0
☒	☐	a. adequate system of diversion ditches to minimize runoff onto the surface of the disposal area and/or drainage ditches to lower the water table	
☐	☒	b. adequate drainage provisions from the surface of the disposal area	
☐	☒	c. maintenance of drainage structures and ditches	
		9. Continuity (0, 2)	2
☒	☐	a. all-weather access roads	
☒	☐	b. provisions for prompt equipment repair or replacement, when needed	
		10. Environmental Protection	
		a. Air (0, 2)	2
☒	☐	1) dust control	
☒	☐	2) odor control	
		b. Land (0, 2)	0
☐	☒	1) exposed rubbish and debris (except in designated reclamation areas)	
☒	☐	2) finished areas grassed or otherwise protected to prevent erosion	
		c. Water (0, 5)	5
☒	☐	1) leachate control (If samples taken, check here ☐ . Laboratory analyses should be attached to report.)	
☒	☐	2) potential floating debris found in or near drainage facilities	
☒	☐	3) placement of refuse above water table	
☒	☐	4) disposal area adequate distance from river, stream, or impoundment (normally 50 feet)	
		11. Supervision (0, 4)	4
☒	☐	a. site under supervision of responsible individual	
☒	☐	b. responsible individual at the disposal site at all times during operation	
		12. Limited Access (0, 15)	15
☒	☐	a. access limited to authorized entrances	
☒	☐	b. authorized entrances closed when the site is not in operation	
		13. Litter Control (0, 4)	4
☒	☐	a. litter control program (fencing or other barriers)	
☒	☐	b. entire site policed daily	
		14. Fire Protection (0, 4)	4
☒	☐	a. suitable means provided to prevent fires	
☒	☐	b. suitable means provided to control fires (Stockpiled earth is considered to be the most satisfactory fire fighting material.)	
		ADDITIONAL STIPULATIONS (0, 4)	4
		(The following items are required for this disposal operation.)	
A*	U*		
☒	☐	15. Informational and directional signs posted	
☒	☐	16. Insect, rodent, bird, and animal control	
☒	☐	17. Site communication (telephone, two-way radio)	
☒	☐	18. Employee facilities (toilet and drinking water provided)	
☒	☐	19. Operational records	
☒	☐	20. Special provisions for immediate disposal of dead animals or highly putrescible wastes (eggs, entrails, offal, etc.)	

Sanitary Landfill Rating (SLR) = 94 . SLR excluding prohibited acts _____.
SLR must be greater than 85 to be an acceptable sanitary landfill.

A* denotes *acceptable* parameter.

U* denotes *unacceptable* parameter. (A single parameter for any requirement or the additional stipulations may be sufficient to preclude any score for that requirement or the additional stipulations.)

Comments:

1. I was accompanied on the inspection by Mr. Leon Watkins.

2. Site operation was satisfactory.

3. 24" pipe on east side:

   a. Install headwall WW and apron.
   b. Remove floating debris (pipe inlet almost clogged up).

4. Sediment basin detail (sheet 1):

   a. Dike slope to be riprapped to 767.4 elevation.
   b. Redo outlet pipe (should be sealed at bottom).

5. Pipe 1 (west side of site) must be installed as per plan.

6. Redo "silt check dam" at northeast side of site.

7. Fill east half of site to elevation that will shed runoff to silt basin.

Time of inspection: 9:50 - 11:05 AM Weather conditions: Overcast

Reason for inspection: [X] Routine [ ] Other _____

Discussed with:

	Name	Title	Address	Telephone
1)	Leon Watkins,	Site Supervisor,	Southern States Landfill, Inc. 4696 Oakdale Road, Smyrna, GA 30080	799-1273
2)				
3)				
4)				

Copy of this report submitted to:

	Name	Title	Address	Telephone
1)	Raymond Cash,	President,	(Same as above)	453-9962
2)	W. Cedric Maddox,	Director, Bureau of Sanitary Services,	City of Atlanta, 1540 Northside Drive, Atlanta, Georgia 30318	351-0289
3)	M. DeVon Bogue,	Director of Environmental Health Services,	Fulton County Health Department, 99 Butler St. SE, Atlanta, GA 30303	572-2116

Photographs: [ ] yes [X] no; Total number _____; Location filed _____

Inspected by: Morgan V. Cantrell

Reviewed by: Philip A. Eve, Jr. Review date: August 26, 1985

Attachments: None

Georgia Department of Natural Resources
270 Washington Street, S.W., Room 825, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

August 26, 1985

Mr. Raymond M. Cash, President
Southern States Landfill, Inc.
4695 Oakdale Road
Smyrna, Georgia 30080

SUBJECT: Evaluation of the Southern States - Bolton Road Sanitary Landfill

Dear Mr. Cash:

An inspection of the above subject site was conducted on August 23, 1985 in the company of Mr. Leon Watkins. Violations noted were discussed with him and are delineated on the enclosed copy of the evaluation report.

A couple of problem areas need your immediate attention:

1. Install, as per the approved Design and Operational Plan, Pipe I on the west side of the site, and

2. Fill the east half of the site to an elevation that will shed runoff to the silt pond.

Should you have any questions concerning the above or any future solid waste handling matters, do not hesitate to call.

Sincerely,

Morgan V. Cantrell

Morgan V. Cantrell
Unit Coordinator
Municipal Solid Waste Control Unit

MVC:sf
Enclosure: Evaluation Report dated 8/23/85
c: James W. Dunbar
W. Cedric Maddox
M. DeVon Bogue
File

Georgia Department of Natural Resources
270 Washington Street, S.W., R. om 825, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

SLUR

Fulton Co.
Southern States Sanitary Landfill

October 30, 1985

TRIP REPORT

lame and Location: Fulton Co. - Southern States Sanitary Landfill, tlanta

y: Barbara A. Ross, P.E., Environmental Engineer
Permit Review Unit

npained by: None

f Trip: 10/25/85

als Contacted: Leon Watkins, Site Superintendent
Raymond Cash, Site owner

nce: Meeting held on 10/9/85 to discuss modification to western dra ipe requirement.

ts:
ditch had been constructed along the western boundary where the con ipe is specified in the D & O Plan.

ie side slope supporting the only downdrain and principal d nduit is unstable and severely eroded.

diment had accumulated in the basin and the basin needed diment had also accumulated at the culvert that services the ndary ditch to the basin. The culvert is a temporary cording to Mr. Watkins who further disclosed that the id will be removed after a decision is made concerning ie substitution (reference item 1).

struction of an emergency spillway had begun. The excavated to the Chattahoochee River.

sh and overgrowth were observed on the dam top and ndpipe did not have a trash rack and Mr. Watkins ndpipe was not permanently anchored to the dam.

the exterior face of the dam large concrete rved.

nderdrain carried surface water runoff from t s of the site to a culvert that disch tahoochee River. From the underdrain, arges to an undefined area where ponding v finally meanders to the culvert and the C

Pipeline #2 a drop inlet has been installed.

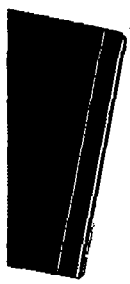
itter across the railroad was very thick.

Grass was not established on the slopes.

Earth was not stockpiled for fire protection and for cover material.

During this inspection a loaded collection vehicle came in without a cover.

Remove the "rebars" from the dike riprap.



Georgia Department of Natural Resources
270 Washington Street, S.W., Room 825, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

October 30, 1985

TRIP REPORT

Site Name and Location: Fulton Co. - Southern States Sanitary Landfill, Atlanta

Trip by: Barbara A. Ross, P.E., Environmental Engineer
Permit Review Unit

Accompained by: None

Date of Trip: 10/25/85

Officials Contacted: Leon Watkins, Site Superintendent
Raymond Cash, Site owner

Reference: Meeting held on 10/9/85 to discuss modification to western drain pipe requirement.

Comments:

1. A ditch had been constructed along the western boundary where the concrete pipe is specified in the D & O Plan.

2. The side slope supporting the only downdrain and principal drainage conduit is unstable and severely eroded.

3. Sediment had accumulated in the basin and the basin needed dredging. Sediment had also accumulated at the culvert that services the western boundary ditch to the basin. The culvert is a temporary structure, according to Mr. Watkins who further disclosed that the culvert and road will be removed after a decision is made concerning the concrete pipe substitution (reference item 1).

4. Construction of an emergency spillway had begun. The spillway is to be excavated to the Chattahoochee River.

5. Brush and overgrowth were observed on the dam top and side slopes. The standpipe did not have a trash rack and Mr. Watkins reported that the standpipe was not permanently anchored to the dam.

   At the exterior face of the dam large concrete boulders, etc. were observed.

6. An underdrain carried surface water runoff from the southern and eastern sides of the site to a culvert that discharges effluent to the Chattahoochee River. From the underdrain, the effluent, however, discharges to an undefined area where ponding was observed. The surface water finally meanders to the culvert and the Chattahoochee River.